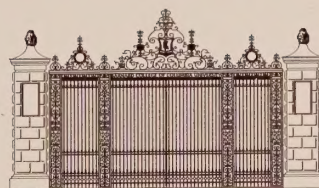





1997-1999 CATALOGUE

Barnard College



1997-98 Edition



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BARNARD

THE LIBERAL ARTS COLLEGE FOR WOMEN
AFFILIATED WITH COLUMBIA UNIVERSITY

1997-99 CATALOGUE

1997-98 EDITION

BARNARD COLLEGE • 3009 BROADWAY • NEW YORK, NY 10027-6598



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AFFILIATED WITH COLUMBIA UNIVERSITY

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In accordance with its own values and with Federal, State, and City statutes and regulations, Barnard does not discriminate in admissions, employment, programs, or services on the basis of race, creed, national origin, sexual orientation, or disability.

This catalogue is intended for the guidance of persons applying for or considering application for admission to Barnard and for the guidance of Barnard students and faculty for the 1997-99 academic years. The catalogue sets forth in general the manner in which the College intends to proceed with respect to the matters set forth herein, but the College reserves the right to depart without notice from the terms of this catalogue. This catalogue is not intended to be and should not be regarded as a contract between Barnard College and any student or other person.



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COLLEGE CALENDAR 1997-98

AUTUMN TERM — ONE HUNDRED AND NINTH YEAR

First-year and transfer student registration.....	Aug. 26, 27 (Tu, W)
Language Placement Examinations.....	Aug. 27 (W)
Upper-class registration	Aug. 29, Sept. 2, 3 (F, Tu, W)
Classes begin 9 a.m.	Sept. 2 (Tu)
Last day to submit work for courses in which grades of I were given in the Spring term, 1997	Sept. 2 (Tu)
Deferred examinations for students absent from May 1997 final examinations	Sept. 5, 8 (F, M)
Program filing. Last day to file Autumn term programs, 4:30 p.m.	Sept. 12 (F)
Last day to add a course	Sept. 12 (F)
Last day to file diploma name cards for the degree in February 1998	Oct. 2 (Th)
Awarding of October degrees.....	Oct. 15 (W)
Midterm Date	Oct. 16 (Th)
Academic holiday	Nov. 3 (M)
Election Day holiday	Nov. 4 (Tu)
Major examinations for February graduates.....	Nov. 5-7 (W-F)
Program planning and sign-up period for all students	Nov. 5-Nov. 24 (W-M)
Last day to drop a course	Nov. 13 (Th)
Last day to file requests for Pass/D/Fail grades.....	Nov. 13 (Th)
Thanksgiving holidays	Nov. 27-30 (Th-Sun)
Last day for students to file Spring term programs with the Registrar	Nov. 24 (M)
Last day to withdraw from a course	Dec. 4 (Th)
Last day to file application for study elsewhere in Spring 1998	Dec. 5 (F)
Required reading days	Dec. 9-11 (Tu, W, Th)
Last day to file a request for an Incomplete. In a course where final paper is due on an earlier date, request must be filed no later than the day before the paper is due	Dec. 11 (Th)
Last day for payment of bill for Spring term.....	Dec. 15 (M)
Mid-year Examinations Begin	Dec. 12 (F)
Autumn term ends	Dec. 19 (F)
Winter recess	Dec. 20-Jan. 19, 1998 (Sat-Mon)

SPRING TERM — ONE HUNDRED AND NINTH YEAR

Registration.....	Jan. 16, 20, 21 (F, Tu, W)
Last day to submit to the Registrar work from Autumn term 1997 for removal of I.....	Jan. 16 (F)
Language Placement Examinations.....	Jan. 16 (F)
Martin Luther King Day holiday.....	Jan. 19 (M)
Classes begin 9 a.m.	Jan. 20 (Tu)
Deferred examinations for students absent from December 1997 final examinations.....	Jan. 23, 26 (F, M)
Program filing. Last day to file Spring term programs, 4:30 p.m.	Jan. 30 (F)
Last day to add a course.....	Jan. 30 (F)
Last day to file diploma name cards for the degree in May 1998 or October 1998.....	Feb. 6 (F)
Awarding of February degrees.....	Feb. 11 (W)
Last day to submit 1998-99 Senior Scholar applications.....	Feb. 26 (Th)
Midterm Date	Mar. 9 (M)
Spring holidays.....	Mar. 14-22 (Sat-Sun)
Last day to drop a course.....	Mar. 26 (Th)
Last day to file requests for Pass/D/Fail grades.....	Mar. 26 (Th)
Major examinations for May and October graduates.....	April 1-3 (W-F)
Program planning and sign-up period for all students.....	April 3-24 (F-F)
Last day to file application for 1998-99 financial aid.....	April 15 (W)
Last day for sophomores to declare majors.....	April 15 (W)
Last day to file application for study elsewhere in Autumn 1998.....	April 15 (W)
Last day to withdraw from a course.....	April 29 (W)
Phi Beta Kappa-Honors Convocation.....	April 30 (Th)
Last day to file Autumn term programs with the Registrar.....	April 24 (F)
Last day to file a request for an Incomplete. In a course where final paper is due on an earlier date, request must be filed no later than the day before the paper is due.....	May 7 (Th)
Required reading period.....	May 5, 6, 7 (Tu-Th)
Final Examinations Begin	May 8 (F)
Spring term ends.....	May 15 (F)
Baccalaureate Service.....	May 17 (Sun)
Presentation of Barnard Degree Candidates.....	May 19 (Tu)
Conferring of Degrees.....	May 20 (W)
Last day to file application for deferred examinations in Barnard courses.....	May 22 (F)
Last day to submit to the Registrar work from Spring term 1998 for removal of I.....	June 9 (Tu)
Classes begin 9 a.m.	Sept. 8 (Tu)

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THE COLLEGE

Barnard is a selective liberal arts college for women, affiliated with Columbia University and integrally related to its hometown of New York City. Barnard is committed to the liberal arts and sciences—a commitment reflected in its curriculum and in the atmosphere of learning and scholarship that permeates its campus.

As a university college in an international city, Barnard offers an education enriched immeasurably by the vast social and cultural resources of New York and the academic resources of Columbia, located just across the street.

More than 50 years ago, Virginia C. Gildersleeve, dean of Barnard from 1911 to 1947, said of New York City, "It is a wonderful place in which to run a college...its museums, its theatres, its concert halls, its operas, its government agencies, its business marts, its great public institutions of a hundred kinds...form laboratories and adjuncts to academic halls." Today the city remains an extension of the campus, used by every department to enhance the relationship of learning to living.

The College seeks women who will benefit most from the Barnard experience: a diverse group of motivated and curious young women who will draw from its deep well of opportunity and contribute to its stimulating community.

BARNARD'S HISTORY

Barnard College was among the pioneers in the late 19th-century crusade to make higher education available to young women.

The College grew out of the idea, first proposed by Columbia University's tenth president, Frederick A.P. Barnard, that women have an opportunity for higher education at Columbia. Initially ignored, the idea led to the creation of a "Collegiate Course for Women." Although highly qualified women were authorized to follow a prescribed course of study leading ultimately to Columbia University degrees, no provision was made for where and how they were to pursue their studies. It was six years before Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter was secured and Barnard College was named in honor of its most persistent advocate.

In October 1889, the first Barnard class met in a rented brownstone at 343 Madison Avenue. Fourteen students enrolled in the School of Arts and twenty-two "specials," lacking the entrance requirements in Greek, enrolled in science. There was a faculty of six.

Nine years later Barnard moved to its present site on Morningside Heights. In 1900 Barnard was included in the educational system of Columbia University with provisions unique among women's colleges: it was governed by its own Trustees, Faculty, and Dean, and was responsible for its own endowment and facilities, while sharing instruction, the library, and the degree of the University.

BARNARD TODAY

From the original 14 students, enrollment has grown to 2,200, with over 29,000 Barnard students awarded degrees since 1893. Barnard's faculty of 250 women and men are teacher-scholars whose paramount concern is the education of undergraduate students, and whose professional achievements bring added vitality to the classroom.

Barnard's liberal arts education is broad in scope and demanding. The curriculum includes a series of general education requirements—a program of courses the Faculty believes provides a stimulating and thorough education, while remaining flexible and varied enough to suit a student's own interests, strengths, and talents. Classes vary in size. Those in which student participation is important are small. There are opportunities for independent study and students are often invited to work on research projects with faculty members.

In 1988 Barnard College and Columbia University amended and extended the long-standing agreement for cooperation between the institutions. Barnard stands as an independent college for women with its own curriculum, faculty, admissions standards, graduation requirements, trustees, endowment, and physical plant. At the same time, Barnard and Columbia share resources, thereby giving students open access to the courses, facilities, and libraries of both schools. Barnard and Columbia students also share in a variety of social and extracurricular activities.

From its inception, Barnard has been committed to advancing the academic, personal, and professional success of women. Students benefit from an atmosphere in which over half of the tenured faculty are women, and women are well represented in the administration. The College is led by Judith R. Shapiro, anthropologist and former provost of Bryn Mawr. At Barnard, women are given the opportunities and the freedom to lead both in and out of the classroom, and to develop the skills that will equip them to lead throughout their lives.

Barnard's unique ties to several of Columbia's graduate schools, and to premier New York City institutions, including the Juilliard School, the Manhattan School of Music, the Jewish Theological Seminary of America, and Teachers College, give students an unusual range of educational options. Academic organizations within and beyond the University also offer vital opportunities for research, study, studio experience, internships, and community service.

Barnard has a high student retention rate, an indication of student satisfaction with college experience. Barnard students also enjoy leaves for study, travel, and internships. Every year Barnard admits about 100 transfer students who come to take advantage of the educational opportunities available to Barnard women.

Every year the Office of Career Development collects and summarizes information about post-baccalaureate study and employment. In the first year after graduation, almost one-third of Barnard graduates enter full-time graduate or professional schools, with the largest proportions opting to study medicine, law, or business. The rest obtain employment in business and industry, the arts, communications, teaching, social services, and many other fields.

ACCREDITATION

Barnard College is accredited by the Commission on Higher Education of the Middle States Association of Colleges and Schools, 3624 Market Street, Philadelphia, PA 19104, 215-662-5606. The Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Commission on Recognition of Postsecondary Accreditation.

The Barnard campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, four residence buildings, including the College's newest building, Sulzberger Hall, form an enclosed quadrangle.

Barnard Hall is just north of the "Quad" and contains seminar rooms, classrooms, and faculty offices, as well as the LeFrak Gymnasium, a swimming pool, and dance studios. The Sulzberger Parlor on the third floor is used for meetings and special events. The Julius S. Held Lecture Hall, an electronically equipped multimedia classroom, also resides on the third floor.

Adele Lehman Hall contains the Wollman Library and two floors of faculty offices and classrooms. The library includes the reserve room and the Lehman Computer Center on the first floor; the reference area, periodicals, microforms, and open book stacks on the second floor; and on the third floor, audiovisual facilities and more open stacks. Computer facilities for the Economics and Political Science departments are also located in Lehman. The building overlooks a lawn surrounded by trees and shrubs.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center face each other across an open plaza. The 14 stories of Altschul Hall are devoted to the sciences. Herbert H. Lehman Auditorium is on the first floor. The headquarters for student activities, a snack bar, and a lounge are located in the McIntosh Center, as well as student mailboxes, music practice rooms, a bowling alley, and the Jean T. Palmer Room for conferences.

Milbank Hall occupies the northern end of the campus and houses administrative and faculty offices, classrooms, the Arthur Ross Greenhouse, and the Minor Latham Playhouse, a well-equipped modern theatre. Substantial renovations will take place in Milbank during 1997-98, yielding expanded neuroscience research laboratories and animal facilities, as well as a redesigned and updated Math Help Room/Computer Laboratory.

In the immediate neighborhood, Barnard maintains additional residence halls, including Plimpton Hall and Elliott Hall, and 600, 616, and 620 West 116th Street, all apartment buildings. The College also rents additional spaces at 601 West 110th Street.

Columbia University is directly across the street on Broadway.

WOLLMAN LIBRARY AND OTHER LIBRARY RESOURCES

The Wollman Library occupies the first three floors of Adele Lehman Hall; the Archives are located on the tunnel level. The Library's collection of more than 170,000 volumes contains books and periodicals intended to serve the curricular needs of the undergraduate students at Barnard. The Library's Media Collection includes over 1,500 instructional videocassettes as well as audio materials and musical scores. In addition, the Library provides access to a variety of indexes and texts in electronic format. Reserve materials required for course reading are located on the first floor.

Special collections in the Library include the Barnard Archives, a collection of official and student publications, letters, photographs, and other material that documents Barnard's history from its founding in 1889 to the present; an Alumnae Collection of selected works by former Barnard students; the personal library of Nobel Prize-winning Chilean poet Gabriela Mistral; the Overbury Collection of 3,300 books and manuscripts by and about American women authors; and a small rare book collection. The Library has an especially strong collection in women's studies which is supplemented by the resource collection of the Barnard Center for Research on Women. A separate Chemistry Reading Room is located in Altschul Hall.

During the academic year the Library is open seven days a week, providing a full range of services. The Reference Department offers an ongoing instructional program, including weekly workshops, in-class lectures, and individual consultations designed to help each student develop efficient library and research skills.

In addition to the standard print research materials, the Library provides access to many electronic information sources. CLIO is a computerized catalog containing the holdings of the entire Columbia University Library system, including Barnard, from 1981 to the present, with earlier materials being added on an ongoing basis. Students can also search a wide variety of periodical indexes in online and CD-ROM formats. The Library offers access to NEXIS, the comprehensive, full-text online news and legal database, as well as to all resources of the World Wide Web. Among the Library's other electronic resources are: *Video Encyclopedia of the 20th Century*, a laserdisc collection of historic newsreel footage dating from 1893 to 1988; *American Memory*, a multimedia project of the Library of Congress; and electronic texts such as the complete works of Shakespeare, the Bible, and the *Constitution*.

Barnard students also have access to all Columbia University libraries, with more than 6 million books, 3.5 million microforms, over 58,000 serials and periodicals, and a variety of CD-ROMs, as well as to the libraries of Teachers College and Union Theological Seminary. In addition, students may use the many libraries and collections in the metropolitan area, either through public access or special referral.

INFORMATION TECHNOLOGY SERVICES

The Office of Information Technology Services provides computing resources to all Barnard students. The office maintains the Barnard computer network and operates three student computer centers. The main center, located at 112 Lehman Hall, houses PCs, Macintoshes, and laser printers. Student consultants are available in the Lehman Center to assist students with any questions or problems they may have. Additional facilities are located in Brooks and Sulzberger residence halls. All computers in the labs connect to CLIO (on-line library information) and the Internet.

THE BARNARD CENTER FOR RESEARCH ON WOMEN

The Barnard Center for Research on Women, located in 101 Barnard Hall, was founded in 1971 to deepen Barnard's longtime commitment to women's equality and to express its enthusiasm for the new women's movement. The aim of the Center, articulated by its founding charter, is "to assure that women can live and work in dignity, autonomy, and equality."

Today, the Center continues to pursue that goal in many ways: by promoting inquiry and advancing knowledge about women; by helping to keep women's issues at the intellectual forefront of college life; by seeking to increase ties among diverse groups of women; and by reaching out to students, faculty, administrators, alumnae, and women and men in the community outside of Barnard's gates.

The Center sponsors a wide range of programs, conferences, lectures, and seminars. Its series *Speaking of Women* each week brings scholars and activists to the Center for multifaceted discussions on women's issues. The annual *Helen Reid Lectureship* honors distinguished women in public life and the arts who have shown a significant commitment to improving the lives of all women. The *Scholar and the Feminist Conference* joins activists, scholars, and interested members of the public in a day-long exploration of significant questions in women's lives.

The Center's Resource Collection and reading room are open to members of the Barnard community and the general public. The Resource Collection contains thousands of books concerning women and gender, and subscribes to over one hundred and twenty feminist periodicals. Collections of published articles, unpublished articles, newspaper clippings, special newsletters and reports, information on local, national, and international women's organizations, and information about internships round out the collection. Students regularly use the Center as a meeting and study place, as do faculty and staff.

STUDENT LIFE

Barnard students soon discover that their classmates are among the principal resources of their undergraduate years. Cosmopolitan in nature, the student population includes residents of nearly every state and some 50 foreign countries as well as those who live within commuting distance. Diversity is one of the few generalizations that can be made safely about Barnard students; a mingling of economic, regional, ethnic, and cultural groups is evident in campus life. Nine out of 10 students live in college housing and participate in the educational programs, cultural events, and social activities of their residence halls.

STUDENT GOVERNMENT AND CAMPUS ORGANIZATIONS

Student participation in the governance of the College and in shaping student life on campus is a time-honored tradition at Barnard. College committees, on which students, faculty, and administrators serve, recommend policy and procedural changes in such areas as curriculum, housing, and college activities. Students are the majority members on Honor Board and Judicial Council. Two students serve as representatives to the Board of Trustees.

All Barnard students are members of the Student Government Association, which elects a representative government and sponsors extracurricular activities and special events reflecting the range of cultural, political, pre-professional, and academic interests of the student body. These groups, more than 80 in all, include theatre and vocal music groups, ethnic organizations, language clubs, community service groups, and yearbook and literary magazine staffs. The student newspaper, *Barnard Bulletin*, is published weekly. Students with a variety of talents collaborate to produce Winter and Spring Festivals featuring concerts, theatre and dance performances, art exhibitions, and social events.

Student activities emanate from McIntosh Student Center, which houses the offices of College Activities, Student Life, the Student Government Association, and other clubs and organizations. The Center also includes the student mailroom, a snack bar, the commuter lounge, music practice rooms, darkroom, computer publications room, pottery studio, bowling alley, radio station, and the student store. The McIntosh Ticket Booth offers students the opportunity to attend professional dance, theatre, opera, and sports in New York at reasonable prices. Students in many academic disciplines supplement course work with department-sponsored programs, lectures, and performances during the school year.

In the residence halls, Student Hall Councils elected by the residents plan social events and establish certain policies and procedures for use of public spaces and rules of conduct for residents, other members of the community, and guests.

Cooperation among Barnard and Columbia groups is common. Many activities such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia University campus at Earl Hall encompass nearly every faith and are open to all Barnard students. Urban New York, a joint Barnard-Columbia program, offers unusual opportunities for students, faculty, and staff to experience together the cultural, political, and social life of the city.

SPORTS AND ATHLETICS

The Columbia University/Barnard College Athletic Consortium (Division I of the NCAA) sponsors 13 women's varsity teams, including Archery, Basketball, Crew, Cross Country, Fencing, Field Hockey, Lacrosse, Soccer, Swimming and Diving, Tennis, Indoor and Outdoor Track and Field, and Volleyball. The Athletic Consortium is just one of three in the nation and the only one on a Division I level. Women students at Barnard College along with women enrolled at the undergraduate divisions of Columbia University have the opportunity to compete on all university-wide teams. Scheduled competition includes

schools in the Ivy League, the Seven Sisters, the metropolitan area, and the eastern region. Individuals and teams have the opportunity to advance to state, regional, and national competition.

For students interested in less competitive programs, the Physical Education Department offers an extensive program of intramurals, recreation, and club sports. The program features badminton, basketball, bowling, floor hockey, indoor soccer, volleyball, open gym time, recreational swimming, sports clubs, open weight room hours, and special events.

Barnard facilities include a swimming pool, gymnasium, running track, fencing and dance studios in Barnard Hall, and tennis courts just one block away in Riverside Park. Barnard students have access to all recreational and athletic facilities of the University as well. The Dodge Fitness Center includes the Levien Gymnasium, with a seating capacity of 3,499; the eight-lane Uris Swimming Center; 17 squash and handball courts; a well-equipped training room; and locker rooms and sauna. Women's intercollegiate and club teams also use outdoor facilities at Baker Field, a 26-acre complex at the northern tip of Manhattan that includes a new 20,000-seat stadium with an eight-lane, all-weather NCAA-regulation running track and practice fields. There are seven composition tennis courts and a modern tennis clubhouse, facilities for crew, and a spacious field house.

STUDENT CONDUCT

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is enforced by an Honor Board that has a membership of students and faculty members, advised by the Dean of Studies. The Judicial Council of undergraduates, faculty, and administrators recommends disciplinary action for non-academic offenses and acts on appeals of academic disciplinary sanctions determined by the Honor Board. A more complete explanation of the system may be found in the *College Calendar and Student Handbook*.

Each student who registers at Barnard agrees to maintain the Honor Code, which states:

We, the students of Barnard College, resolve to uphold the honor of the College by refraining from every form of dishonesty in our academic life. We consider it dishonest to ask for, give, or receive help in examinations or quizzes, or to use any papers or books not authorized by the instructor, or to present oral or written work that is not entirely our own, except in such a way as may be approved by the instructor. We consider it dishonest to remove without authorization, alter, or deface library and other academic materials. We pledge to do all that is in our power to create a spirit of honesty and honor for its own sake.

Library regulations and independent study courses are also governed by the code.

Policies and regulations concerning student conduct are recommended by student, faculty, and administrative committees to the appropriate administrators, the President, and the Board of Trustees. Hearing and appeal procedures are also outlined in the *College Calendar and Student Handbook*.

Enrollment in the College, award of academic credit, and conferral of the degree are subject to disciplinary powers vested by the Barnard Board of Trustees in appropriate officers of instruction and of administration and in College committees.

RESIDENTIAL LIFE

Barnard maintains a diversified residence program. Residence options include traditional residence halls, a variety of suite arrangements, and apartments in College-owned buildings on or adjacent to the campus. In a cooperative exchange with Columbia College and the School of Engineering and Applied Sciences, a number of coeducational arrangements are

STUDENT LIFE

available. In addition, some students live in independent housing they secure in the campus vicinity. The College offers all incoming first-year students the opportunity to elect to live in campus housing. In all, about 90% of the student body live in College housing, the rest choosing to commute. Policies regarding eligibility for housing and manner of assignments are formulated by the College Housing Committee, with a membership of students, faculty, and administrators.

FACILITIES

The College provides in its residence halls supervision under the direction of the Dean of Student Life. This includes directors, graduate and undergraduate student assistants, 24-hour desk attendant coverage, and regular security guard patrols.

Brooks, Hewitt, Reid, and Sulzberger Halls, or the “Quad,” at the south end of the campus, are operated as a single complex with space for about 930 students. Sulzberger Hall, opened in 1988, completed this residential complex and provides community amenities as well, including computer rooms and a café. The first eight floors of Sulzberger Hall, Reid, Brooks, and Hewitt house first-year students, who are assigned to double, triple, and quad rooms. The Tower and all other single and double rooms are for upper-class students. There are also eight wheelchair-accessible rooms located in the Quad. The “Tower,” floors nine through 16 of Sulzberger Hall, houses upper-class students in suites with lounges and kitchenettes.

“616” West 116th Street, an apartment-style residence directly across the street from the Quad, provides housing for 207 students in suites of single and double rooms. Each suite has a kitchen and bath.

“600” and “620” West 116th Street are College-owned buildings comprising a majority of student apartments of one to five single or double rooms with kitchen and bath, and some apartments for community residents.

Elliott Hall, a renovated building adjacent to the west side of campus, houses 131 students. Rooms are on common corridors in suites with shared baths, kitchenettes, and lounges.

Plimpton Hall, an apartment-style residence hall on Amsterdam Avenue and West 121st Street, a short walk from the main campus, but adjacent to Columbia and Teachers College, provides housing for 280 students in suites of five single rooms. Each suite has a kitchen and bath.

601 West 110th Street has housing for at least 30 Barnard students (mostly juniors and seniors) who live in suites and studios. This option provides independent living with an active residential life program.

ELIGIBILITY

Eligibility criteria have been established in order to assign available space on an equitable basis. These regulations may be changed as needed at the discretion of the College, but insofar as possible, the following criteria will determine eligibility:

1. A student must be registered for a full academic program. Exceptions may be made upon review of appeals submitted to the Dean of Studies and the Dean of Student Life.
2. A student receives “Resident” classification if the principal residence of her parent or legal guardian is in the geographic area classified by the College as beyond commuting distance.
3. A “Commuter” is a student whose permanent residence is within the geographic area classified by the College as within commuting distance. Commuters are eligible for campus housing when they enter as first-year students. Rooms are reserved for com-

muters for occasional overnight accommodation. Per diem fees are charged for these rooms.

ASSIGNMENTS

Returning upper-class resident students are assigned rooms in College residences on the basis of a lottery and room selection. Rules about eligibility for and priority in the room selection process are determined by the Housing Committee. Incoming first-year students, readmitted upper-class students, and transfer students are assigned rooms by the Housing Office.

REQUIREMENTS

The rules and regulations regarding housing deposits, payments and refunds, and the use and occupancy of rooms are in the “Terms and Conditions of Student Residence in Barnard College Housing,” which is given to students selecting College housing and which must be agreed to before they may accept an assignment.

BOARD

The College offers all students meal plans, which include points that may be used in the recently renovated Hewitt cafeteria, McIntosh snack bar, and Quad Café. Meal plans (not points) may also be used at Columbia’s John Jay cafeteria for some meals. All first-year students and most residents of the Quad (Brooks, Hewitt, Reid, and Sulzberger Halls) are required to be on a meal plan for the full academic year.

MARRIED STUDENTS

Married students, as a rule, will not be allowed to remain in the College residences. They will be subject to financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

FINANCIAL AID FOR ROOM AND BOARD

A student who lives within commuting distance of the College and decides to live in college housing will receive a financial aid package based on the costs of a commuter. The Barnard College Grant will not be increased to cover the additional costs of room and board. Only resident students who choose to live in College housing may receive financial aid for room and board. Resident students who decide to live off-campus or commute from home receive reduced aid packages which reflect the costs of commuters.

ADMISSION

The Committee on Admissions selects young women of proven academic strength who exhibit the potential for further intellectual growth. In addition to their high school records, recommendations, and standardized test scores, the candidates' special abilities and interests are also given careful consideration. While admission is highly selective, no one criterion determines acceptance. Each applicant is considered in terms of her individual qualities of mind and spirit and her potential for successfully completing the course of study at Barnard.

Barnard seeks students from diverse educational and cultural backgrounds and from all geographic regions. However, no preconceived profile of an ideal student population limits the number of applicants accepted from any one group. The College admits students and administers its financial aid and loan programs, educational policies and programs, recreational programs, and other College programs and activities without regard to race, color, creed, national origin, sexual orientation, or disability.

FIRST-YEAR APPLICATION PROCEDURES

Students are admitted to the first-year class in September and, in limited numbers, in January. They must be at least 15 years of age.

Application for admission to the first-year class should be made by January 15 for entrance in September of the same year. Application forms may be obtained by writing to the Office of Admissions. Barnard accepts the Common Application in lieu of its own form and gives equal consideration to both. Students may obtain copies of the Common Application from their high schools.

A non-refundable fee of \$45 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank and made payable to Barnard College. Students with financial need should request a fee-waiver from their high school counselor and send it with the application.

SECONDARY SCHOOL PREPARATION

Each candidate for admission must offer a college preparatory program from an approved secondary school or an equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; three or four years in a foreign language (ancient or modern); two years in science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art. Applications varying from this pattern are considered without discrimination if the candidate's records indicate genuine intellectual ability and high motivation.

FIRST-YEAR ENTRANCE TESTS

Barnard requires all candidates to take the College Board's SAT I and three SAT II Subject Tests, one of which must be in writing or literature. The ACT can be substituted for the SAT I and SAT II Subject Tests. We recommend that students take these standardized tests by the fall of their senior year. As early as possible, candidates should write directly to the College Board or the American College Testing Program for the Bulletin of Information containing descriptions of the tests, directions for filing applications, the dates on which examinations are administered, and a list of examination centers. Dates vary from year to year and applications to take the test must be received by the CB and ACT well in advance of the tests. Students who require non-standard administration of the tests should consult with their guidance counselors for testing accommodations.

It is the student's responsibility to direct the College Board or American College Testing Program to send official test scores to the Office of Admissions. The CB code number for Barnard is 2038. The ACT code number for Barnard is 2718.

Another important part of the application is the submission of three recommendations, one from the high school counselor and two from academic teachers of the candidate's choice. These recommendations give the Committee on Admissions additional information about the candidate's interests, character, skills, and aptitude, and should be as complete as possible.

INTERVIEWS

Although not required, an interview is recommended. For students who are able to visit the campus, interviews and tours can be arranged by writing or calling the Office of Admissions. Appointments are scheduled Monday through Friday from 9:30 A.M. to 12:00 P.M. and from 1:00 to 4:00 P.M., and on selected Saturday mornings. Applicants who are unable to visit the College may request an interview with a local Barnard Alumnae Admissions Representative (BAAR) or a telephone interview with a Barnard Student Admissions Representative (BSAR) by returning the Interview Request Card that is included with the application.

EARLY DECISION

Well-qualified high school seniors who have selected Barnard as their first-choice college may apply under one of two Early Decision Plans (EDPs). To be considered under **Early Decision One**, a candidate should submit her application and other required credentials (listed above under first-year application procedures) to the Office of Admissions by November 15. She will be notified of the Committee's decision no later than December 15. To be considered under **Early Decision Two**, a candidate should submit a completed application by December 15 for notification of the Committee's decision no later than January 15. Under either plan, a student may initiate regular applications to other colleges; she must, however, withdraw all other applications upon admission to Barnard. Notification of financial aid for those candidates who have demonstrated financial need will follow the admissions decision. To reserve a place in the first-year class, an Early Decision student must submit a non-refundable enrollment deposit; this deposit is applied toward tuition and fees for the first year.

The same criteria are used in the evaluation of applicants under both Early Decision Plans. The Committee on Admissions may choose to postpone a decision on an EDP application until the spring. In that event, the student is asked to submit a record of schoolwork from the first half of the senior year. Candidates admitted under the Early Decision Plan are obligated to attend Barnard and will not be allowed to defer their admission.

CENTENNIAL SCHOLARS PROGRAM

The Centennial Scholars Program offers a limited number of intellectually independent students an early opportunity to engage in challenging projects tailored to their individual interests. Centennial Scholars work with mentors, chosen in consultation with the Program directors, on the development, execution, and presentation of these projects.

The Program is limited to 15 students in any single class, approximately 8 to 10 to be chosen at the time of their admission with additional selections to be made in the following two terms. Admission of a first-year student to the Program is based on the Centennial Scholars Committee's review of her Barnard application, including her secondary school record, recommendations from her counselors and teachers, her personal statement,

ADMISSION

standardized test scores, and evidence of advanced preparation. Consideration of an enrolled first-year or sophomore requires recommendations of faculty members.

For further information about the Centennial Scholars Program, see page 39.

DEFERRED ENROLLMENT

An admitted first-year or transfer student who wishes to defer enrollment in Barnard for one year must obtain permission by writing to the Dean of Admissions explaining the reasons for the deferral request. Such a request is normally granted for purposes of work, travel, or pursuit of a special interest. Students admitted under the Early Decision Plan cannot defer their admission.

INTERNATIONAL STUDENTS

Barnard welcomes applications from international students. These students are expected to follow the same application procedure and present the same credentials as other candidates.

Knowledge of the English language is essential for admission. Those students whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). Information about registration for the test is obtained by writing the TOEFL Program at the Educational Testing Service. After enrolling at Barnard, international students receive assistance with academic placement from the International Student Adviser in the Office of the Dean of Studies.

TRANSFER STUDENTS

Barnard welcomes transfer students in the sophomore and junior classes of each year. Applications for admission in September will be reviewed according to the following schedule:

Deadline	Notification
March 1	April 15
April 1	May 15
May 1	June 15

Each candidate must submit an application and the following credentials: the secondary school record, the results of the SAT or ACT, and, if appropriate, the TOEFL, the official transcript of all college work, and a copy of the college catalogue in which the courses taken are clearly marked. Three recommendations are also required: one each from the high school counselor, a college faculty member, and a college dean or adviser.

A strong record at an accredited college, university, or equivalent institution is required. In some cases, advanced credit cannot be assigned until a student has had an opportunity to establish a satisfactory record at Barnard, but in general, credit is given for courses which are similar in content and depth to Barnard courses.

After acceptance, academic and general guidance is provided by the Advisers to Transfer Students in the Office of the Dean of Studies. For information on financial aid, students should consult page 23.

VISITING STUDENTS

Undergraduate students who are degree candidates at other colleges may apply for admission as visiting students for one or two semesters. In addition to the traditional visiting student program offered in the Fall semester, Barnard offers a unique program during the Spring semester. Students participating in the “Spring in New York” program combine the opportunity to study at Barnard with a guided internship program in their chosen field. Applicants to the Fall or Spring program must present a satisfactory college record and a letter of approval from the dean or major adviser from the degree-granting institution.

READMISSION (see page 50 Withdrawal and Readmission).

RESUMED EDUCATION PROGRAM

Former Barnard students who wish to return to the College after an absence of five years or more to complete the A.B. degree or for further study in new areas of interest after graduation may obtain applications from Dean Aaron Schneider in the Office of the Dean of Studies.

ADMISSION WITH ADVANCED PLACEMENT

Credit for advanced work completed in secondary school is determined on the basis of Advanced Placement (AP) scores and by the policy of the Barnard department concerned. Departmental policies are outlined below. As much as a year of degree credit (normally 30 points) may be granted.

Department	AP Score	Credit	Requirement Status
Art History	4 or 5	3 pts.	Exemption from ARH BC 1001
Biological Sciences	4 or 5	3 pts.	Exemption from BIO BC 1001 (4.5 pts. with review of lab notes)
Chemistry	4 or 5	3 pts.	Exemption from Quantitative Reasoning (5 pts. with review of lab notes) and exemption from CHE BC 1601
Computer Science	4 or 5	3 pts.	Exemption from CSC W 1003
Economics	4 or 5	3 pts.	Exemption from either ECO BC 1001 or 1002
English	4 or 5	3 pts.	Exemption from ENG BC 1201
Foreign languages	5	6 pts.	Exemption
	4	3 pts.	Exemption
History	5	6 pts.	
	4	3 pts.	
Mathematics			
Calculus AB	4	3 pts.	Exemption from Quantitative Reasoning, and placement in IIA. If student takes and passes the placement test for IIS, she will receive 4 pts. of AP credit and may continue in IIS.
Calculus AB	5	4 pts.	Exemption from Quantitative Reasoning, and placement in IIS.
Calculus BC	4 or 5	4 pts.	Exemption from Quantitative Reasoning, and placement in IIS.

ADMISSION

Music	4 or 5	3 pts.	
Physics	4 or 5	3 pts.	Exemption from Quantitative Reasoning (4 pts. with review of lab notes) and one term of two-term physics sequence.
Political Science			
U.S. Govt.	5	3 pts.	Exemption from POS BC 3001.
Comparative	5	3 pts.	Exemption from POS V 3501.
Psychology	4 or 5	3 pts.	Exemption from PSY BC 1001.

No credit will be granted for a college course equivalent to the AP course for which AP credit has been awarded.

OTHER DEGREE CREDIT

Students who have satisfactorily completed college courses before entering Barnard as first-year students may apply for a maximum of 15 points of degree credit. The courses must be intended primarily for college students and taught at the college by members of its faculty. With the exception of the aforementioned Advanced Placement courses overseen by the College Board, courses taught in a high school, either by specially trained high school teachers or by college instructors, will not be credited toward the Barnard degree.

FINANCIAL INFORMATION

The costs of education at Barnard are met by tuition, income from endowment, current gifts from alumnae and other friends of the College, and grants from foundations, corporations, and government agencies. The College makes every effort to limit charges to students but must reserve the right to set tuition and fees at the level necessary for the maintenance of a high quality of instruction.

SCHEDULE OF ANNUAL TUITION AND FEES

The following tuition and fees are required from all students for the Academic Year 1997-98 and are subject to change without prior notice.

Tuition:

Full program (12-18 points)	\$20,202
Partial program (1-11 1/2 points)	674 (per point)
Excess program (over 18 points)	674 (per point)
Program for Resumed Education. Tuition is assessed on the basis of a schedule available from the director of the program in the Office of the Dean of Studies.	
Comprehensive Fee	\$774
(includes Student Health Service Charges and Student Government Charges)	

The following fees are required from all students occupying college housing facilities for the Academic Year 1997-98.

Residence charges

Brooks, Hewitt, Reid, and Sulzberger Hall ring floors (board is required— see below)	
All college housing	
Single occupancy	\$6,044
Multiple occupancy	5,386

Board charges — Required of all those residing on floors 2-8 in the Quad (Brooks, Hewitt, Reid, and Sulzberger Halls).

*First-year students in Barnard housing are required to choose one of these plans:

Board Charges-Regular			Full Year
*Unlimited	Meals per Term Plus	25 Points	3,320.00
*225	Meals per Term Plus	200 Points	3,350.00
*150	Meals per Term Plus	300 Points	3,350.00
*100	Meals per Term Plus	450 Points	3,350.00
75	Meals per Term Plus	250 Points	2,980.00

Kosher meal plans are also available for an additional charge.

A drop or change of meal plan will not be accepted after the second Friday of each semester. Charges will be prorated during this period and a \$50 fee will be assessed.

Other fees — Required if applicable:

Readmission fee	\$100
Registration in absentia (per semester)	200
Physical education—part-time students (per course)	674
Orientation fee—all first-year and transfers entering in the	
Autumn term	170
Spring term	50

FINANCIAL INFORMATION

Deferred Payment Plan (per semester)	\$75
Overseas comprehensive fee (per semester)	77
Overseas Program fee (<i>Reid Hall, Barnard Option, Kyoto Program</i>) (per semester)	75
Senior fee—all graduating seniors	100
Course fee (<i>per semester</i>)	
French	10
Dance	95
Theatre	95
Film fees	
Art History—Autumn	5
Art History—Spring	30
French	20
Italian	30
Laboratory fees (<i>per laboratory course</i>)	
Biological Sciences	50
Biochemistry	45
Chemistry—General	28
Chemistry—Other	35
Environmental Science	30
Physics	25
Psychology	30
Study Leave fee (<i>per semester</i>)	200
Summer Credit Processing fee (<i>except CU summer session</i>)	50
Returned check fee (per item)	20

PAYMENT OF CHARGES AND FEES

All charges and fees (unless otherwise noted) are billed on a semester basis. The Autumn term tuition is due August 1. The Spring term tuition is due December 1. Payments received after these dates are subject to a late processing fee of \$75. Registration for either semester will not be complete until all College costs have been paid. In addition, failure to complete registration and program filing on time imposes progressive late fees. Occupancy of an assigned dormitory room will not be permitted until charges have been paid in full as required. Students admitted after August 1 or December 1, respectively, must pay the balance due by the first day of registration.

Financial aid grants and any loans (less loan origination fees imposed by your lender) may be deducted from the semester charges before computation of the balance due is made.

Privileges of the College, including issuing of transcripts and diplomas, and administration of examinations, are not available to any student who is delinquent in the payment of her College bills. When bills are not paid in full by their due date or satisfactory arrangements for their payments have not been made with the Bursar, the student will not be allowed to register and may be required to withdraw from the College.

Delinquent accounts are referred to credit bureaus and a collection agency. In addition to any outstanding tuition, fees, and room and board, students are responsible for the costs of collection including interest, penalties, collection agency fees, court costs, and attorney fees. **All charges and fees are subject to change at any time at the discretion of the Board of Trustees.**

Checks or money orders in payment of tuition and fees must be in **U.S. funds at a U.S. bank** payable to Barnard College and should be made out for the exact amount of the payment due. A fee will be assessed for checks returned unpaid.

DEPOSITS

To obtain a place on the College roster for the ensuing academic year, each student who is currently enrolled must pay a non-refundable tuition deposit of \$200 on or before May 6. An applicant for admission must pay a \$400 non-refundable deposit upon acceptance of the offer of admission to Barnard College.

DEFERRED PAYMENT

For students and parents desiring to pay education costs in monthly payments, an outside payment plan is available. Information may be obtained from the Bursar's Office.

ADJUSTMENT OF TUITION FOR CHANGING PROGRAM OF STUDY

If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be credited the excess only if the change in her program is made by the last day of program filing in each term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

CREDITS FOR WITHDRAWAL

If a student withdraws prior to the start of the College year and incurs no charges for tuition, fees, room, or board, the tuition deposit is forfeited. If the student has incurred charges, the tuition deposit will be applied toward those charges. Withdrawal credits will be calculated from the last day of attendance. However, charges will be assessed by the College for housing and dining services based on the official date of withdrawal from those contracts. The appropriate cancellation forms are available in the Housing and Bursar's Offices, respectively. To receive a refund check, the student must complete a Student Refund Request at the Bursar's Office.

By registering for classes, a student incurs a legal obligation to pay tuition and fees. This debt may be reduced only if the student officially withdraws from the College according to the schedule below:

Tuition credit percentages (withdrawal during the week of the term):

1st week	90%
2nd week	80
3rd week	80
4th week	70
5th week	60
6th week	60
7th week	50
8th week	40
9th week	40
After the 9th week	0

Items not subject to the credit calculation include:

- Medical insurance
- Orientation fees
- Late payment, program filing, registration, or deferred payment fees
- Returned check fees
- Dormitory use fines
- Finance charges

FINANCIAL INFORMATION

Students will not be eligible for a refund until all Title IV funds and other scholarships, as required, are reimbursed, and any outstanding balances with the College are cleared.

In the event of withdrawal from housing while still enrolled in the College, a student will forfeit 80 percent of housing charges during the first two weeks of classes. Thereafter, the entire amount for the semester will be forfeited.

SAFEKEEPING OF STUDENTS' FUNDS

Barnard College is not able to receive funds from students for safekeeping or to cash personal checks or traveler's checks. To cover immediate expenses, a student should have traveler's checks or postal money orders. The Columbia University Station of the U.S. Post Office will cash postal money orders upon presentation of a validated ID card. Validated ID cards are issued after students register and pay at the beginning of each term.

FINANCIAL AID

Insofar as possible, Barnard assists qualified students who demonstrate financial need. Barnard does not discriminate against applicants for financial aid on the basis of race, color, creed, national origin, or disability.

Financial aid from the College consists of grants, loans, and opportunities for part-time employment. In addition to providing financial aid from its own funds, i.e., gifts, endowment, and general income, Barnard participates in the following federal programs: the Federal Pell Grant Program, the Federal Supplemental Educational Opportunity Grant Program, the National Science Scholars Program, the Federal Perkins Loan Program, the Federal Family Education Loan Program, and the Federal College Work Study Program. Barnard also participates in the New York State Higher Education Opportunity Program (HEOP). Federal and state funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above-mentioned financial aid sources, students are urged to investigate state loan and scholarship/tuition assistance programs and college tuition financing plans. The Controller's Office has additional information and applications for payment plans and long-term financing plans.

Any student who thinks she will need financial aid in order to attend Barnard is encouraged to apply for aid. The decision of the Committee on Admissions to admit a student is not affected by the fact that a student has applied for or demonstrated need for financial aid.

A detailed explanation of current College policies and awarding practices may be found in the brochure, *Barnard College Financial Aid Policies and Procedures*, available from the Office of Financial Aid.

FINANCIAL AID FOR ROOM AND BOARD

Commuter students do not normally receive financial aid for living and eating in College residences. Only resident students who choose to live in College housing may receive financial aid for room and board. Resident students who decide to live off-campus or commute from home receive reduced aid packages which reflect the costs of commuters.

ACADEMIC ADVISING

Academic advising is coordinated by the Office of the Dean of Studies (105 Milbank), which oversees the assignment of an adviser to each entering student. Although responsibility for the fulfillment of degree requirements (see page 32) rests with the student, her academic adviser is prepared to help her match her program of courses to her individual goals and priorities, to acquaint her with the full range of academic resources available at the College and the University, and to respond to her questions about the curriculum and academic policies and procedures. Also available for assistance are her Class Dean, the entire staff of the Dean of Studies, and the other members of the Barnard Faculty.

CLASS DEANS AND ADVISERS

Prior to her matriculation, each entering first-year student will receive a program form and the program guide from the First-Year Class Dean. The student selects courses for the Autumn term and returns the completed program form to the Class Dean for first-year students who, insofar as possible, schedules classes accordingly. Class schedules and registration materials are distributed when students arrive on campus in September. The Class Dean also assists the Dean of Studies in coordinating the academic advising of first-year students, participates in planning for first-year orientation with a committee of upper-class students, and oversees other special programs for first-year students.

Assistance in planning courses of study is given to first-year students and sophomores by their academic advisers. Group meetings with advisers are scheduled during orientation; students are expected to schedule appointments for individual advising throughout the year. Group meetings with department chairs and other professors are arranged periodically to facilitate the selection of majors.

In the second semester of her sophomore year, each student chooses her major field in consultation with her Class Dean, her adviser, the academic department, and the Director of Career Development. During her junior and senior years, her major adviser guides advanced study for the undergraduate degree and is the principal source of information on preparation for graduate school. Also available to her for general academic guidance is her Class Dean.

While it is the student's responsibility to complete all degree requirements, the Registrar reviews each senior record and advises on graduation status. A senior handbook, sent to campus mailboxes at the beginning of the Autumn term, describes College policy on honors, application procedures for graduate or professional study, and deadlines for major examinations, GRE, LSAT, MCAT, and fellowship applications. The Senior Class Dean and the Coordinator for Commencement oversee the planning for commencement with the help of class officers and the Commencement Committee.

TRANSFER ADVISERS

Incoming transfer students are assisted by the transfer advisers in planning their courses of study and designating a major field. Group meetings are scheduled in the summer and during orientation, and individual appointments may be arranged in the Office of the Dean of Studies throughout the academic year. Transfer students who enter with junior class standing are guided by both transfer and major advisers during their first Barnard semester.

INTERNATIONAL STUDENT ADVISERS

Advice on situations arising from international student status is available in the Office of the Dean of Studies from the deans designated to counsel international students.

VISITING STUDENTS

Students who enroll for classes at Barnard as visitors who will graduate from another college must have approval from the degree-granting school for coursework to be completed at Barnard. Program filing and registration are guided by a designated dean in the Office of the Dean of Studies.

STUDY LEAVES

Students who wish to study for credit toward the Barnard degree at another accredited college, whether it be abroad or in the United States, are to apply for approval from the appropriate dean in the Office of the Dean of Studies early in the semester before the period of enrollment at the other institution. Information and forms are available at 105 Milbank.

PRE-PROFESSIONAL ADVISING

Students who are interested in post-baccalaureate professional training may consult the appropriate pre-professional dean in the Office of the Dean of Studies for help with programming, selection of schools, and submission of application materials. A student who plans to enter one of the health professions should seek advice in her first or second college year in order to discuss requirements and obtain a handbook. Consultation with the pre-professional advisers in the junior year is recommended for any student interested in law, social work, journalism, or business. The pre-professional assistant maintains recommendation files and forwards materials required for applications. (See page 31.)

GRADUATE SCHOOL ADVISING

Students interested in advanced study in the liberal arts and sciences or the performing arts may consult faculty members in appropriate departments and the Senior Class Dean. A student who plans to apply to graduate school should, in her senior year, establish a file with the assistant for graduate school recommendations in the Office of the Dean of Studies.

STUDENT SERVICES

OFFICE OF CAREER DEVELOPMENT

The Office of Career Development helps students and alumnae explore, define, and implement career plans. To provide this service the Office has developed programs enabling Barnard women to gain work experience and to become informed about different career opportunities. Both students and alumnae are seen for individual career counseling, and panels and group workshops are given on careers and related concerns. The Career Development Internship Program provides semester and summer offerings useful for students to clarify their vocational interests through valuable and often professional-level experience. A newsletter informs students about career programs, workshops, internships, community service, and special opportunities.

To aid students and alumnae in exploring career areas, the Office maintains a Contact File, which lists alumnae who are available to discuss their fields; a library of vocational materials; and a collection of graduate school catalogues. Workshops on specific concerns, such as résumé writing and interviewing skills, are conducted when the College is in session. Students and alumnae may establish permanent recommendation files in the office for future employment.

The Office of Career Development, which is open twelve months a year, has contacts with many potential employers who post full- and part-time jobs. The Federal Work Study Program is also administered by this office. Students use part-time and temporary job listings for both on- and off-campus jobs. *The Jobseekers' Newsletter*, which highlights full-time job opportunities, is issued every two weeks and is mailed to alumnae who subscribe. Full-time job listings can be viewed on the Internet, also by subscription. During the spring semester, seniors are interviewed on campus by corporate and large non-profit organizations offering entry-level professional opportunities through the Senior Employment Program. Annual not-for-profit career fairs organized by a consortium of colleges are held each spring in Washington, D.C. and New York City to connect students with many employers and internship sponsors in that sector.

The Barnard Babysitting Service, the Barnard Bartending Service, and the Barnard Student Store are student-run agencies supervised by the Office. They provide excellent managerial experience and create jobs for many students.

PROGRAM FOR STUDENTS WITH DISABILITIES

In 1978, Barnard established a program to provide services for students with disabilities which enhance their educational, pre-professional, and personal development. The Office for Disability Services (ODS) serves students with visual, mobility, and hearing impairments and students with hidden disabilities such as chronic medical conditions, learning disabilities, and psychiatric/emotional disabilities. The ODS works with other administrators and members of the faculty to assist students with disabilities in participating in college activities, securing financial aid, scheduling classes and examinations, and planning careers. Mobility aides, readers, note-takers, and other accommodative aides are available on request. ODS publications include the *Barnard College Policy on the Admission of Students with Disabilities*, and two services brochures, *What ODS Can Do for You* and *Survival Tools for LD Students*. The 504/ADA Access Committee works to reduce architectural, programmatic, and attitudinal barriers at the College. The Barnard LD Network offers outreach, peer support, and referral to students with learning disabilities; the BAID Network (Barnard Alumnae Involved with Disabilities) provides students with access to disabled alumnae in a broad range of careers.

STUDENT SERVICES

The buildings on the contiguous campus interconnect and are wheelchair accessible. Maps of the campus showing special features and access routes are available at the Office for Disability Services; access maps of both Columbia University and Teachers College are also available.

STUDENT HEALTH SERVICES

Student Health Services provides primary health care, short-term counseling, and gynecological services as well as specialist referrals for all registered Barnard students. They also support the Well-Woman Peer Education Program and other activities related to a variety of women's health and wellness issues. The medical staff consists of full-time and part-time physicians as well as nurses and nurse practitioners experienced in college health and women's health care practice. The Mental Health Service is staffed by psychiatrists, clinical psychologists, and clinical social workers. Advanced trainees in a number of clinical disciplines work at Barnard on a yearly basis. Entering students must submit medical history and physical forms, which become the basis of the medical chart.

Both the Health Services and the Mental Health Services are available to all Barnard students and are covered by the Comprehensive Fee. The Barnard Health Services close during college vacations and holidays, when Barnard students may use the Columbia University Health Services. A physician is on call nights and weekends when the College is in session and during winter and spring break for after-hours emergencies.

All Barnard students who have paid the Comprehensive Fee are covered for the Basic Accident and Sickness Plan benefits of the Barnard Student Insurance Plan. The insurance plan provides benefits toward the cost of the following services when ordered by a Barnard staff physician: (1) hospitalization for illness or accident; (2) laboratory tests and X-rays; (3) consultations. This basic coverage is designed to supplement parental insurance and pays after parental benefits. The following services are **not** covered: (1) home visits; (2) consultations when the College is not in session; (3) dental care (except for treatment of injury to sound natural teeth); (4) ongoing treatment by outside physicians or other practitioners. A low-cost optional supplemental insurance is available for those students who cannot be covered by parental benefits.

For additional information, students are encouraged to consult *Barnard Health Service*, *A Student Guide*, and the brochure describing the Barnard Student Insurance Plan, which are available at Student Health Services.

RESIDENT ASSISTANTS

As part of the student support network, upper-class students in each residence hall are designated as **Resident Assistants** to be a campus resource for resident students, to provide liaison with and referrals to other services, and to aid in residential programming.

SERVICES FOR COMMUTERS

The Office of Student Life provides information about off-campus housing, transportation, carpooling, parking, and temporary on-campus accommodations, and supports educational, cultural, and social programs designed to enrich commuter life. The Skip-Stop Express is the student-run organization sponsoring events and support services for commuters. It has an office in McIntosh Student Center across from the Commuter Lounge.

RECOMMENDATIONS

Students may establish recommendation files for employment in the Office of Career Development, for graduate study with the recommendations assistant in the Office of the Dean of Studies, and for professional schools with the pre-professional assistant in the Office of the Dean of Studies. For procedures and policy, the appropriate office should be consulted.

STUDENT RECORDS AND INFORMATION

The Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment) stipulates that students may have access to their official files and that no transcripts may be issued without their written request. A further explanation may be found in the *College Calendar and Student Handbook*.

Also in accordance with the Buckley Amendment, Barnard has the right to make public, at its discretion and without prior authorization from the student, the following information: name, class, home or college address and telephone number; major field; date and place of birth; dates of attendance at Barnard; degrees; honors and awards received; and previous school most recently attended. The law also gives students the right to place limitations on the release of this information. A student who wishes to do so must file a special form with the Registrar, 107 Milbank, each year by September 15. In practice, the College does not indiscriminately release information about individual students.

THE CURRICULUM

REQUIREMENTS FOR THE A.B. DEGREE

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts, the only degree awarded to Barnard students. The degree requires the satisfactory completion of 120 points of academic work and two terms of physical education. All students must be enrolled full-time, and must complete a major and fulfill general education requirements.

MAJOR REQUIREMENTS

All students must complete the requirements of an approved major. The number of required courses for the major depends on the major chosen (see individual department and program curriculum statements), but a minimum of six semester courses must be completed while the student is enrolled at Barnard. A course graded D will not satisfy a major requirement.

The student registers her chosen major with the Office of the Registrar and with her major department or program, normally in the second term of her sophomore year. The major may be chosen from any listed in the *Barnard Catalogue*. A student may major in two fields by satisfying all the major requirements prescribed by each department, with no overlapping courses. If either or both of the disciplines qualify for Part A of the Distribution Requirement, two courses in one qualifying discipline may count toward that requirement. A combined or special major may be designed in consultation with the chairs of the appropriate departments and with the approval of the Committee on Programs and Academic Standing. Committee approval is not needed for the double major that comprises all the course requirements of two majors with one integrating senior project, but the form designated for such a double major must be filed with the Registrar and the two departments.

GENERAL EDUCATION REQUIREMENTS

Barnard's general education program is designed to provide direction and continuity while giving students opportunities to shape their own programs of study. Barnard offers a rigorous but flexibly structured set of requirements which afford students a range of choice in almost every instance. The requirements follow.

FIRST-YEAR SEMINAR

First-year students are required to take this one-semester course, which provides special opportunities to develop some of the intellectual skills and styles which will be central to subsequent academic work. The enhancement of writing and communication skills is emphasized, as is the group-discussion mode of intellectual inquiry and discourse. Seminars adopt major themes or issues, and participants read and discuss leading philosophical, historical, literary, or scientific statements of them. A representative sample of First-Year Seminars, with descriptions and the names of instructors, begins on page 159. Transfers are not required to take the First-Year Seminar.

FIRST-YEAR ENGLISH

First-year students must take the one-semester writing course ENG BC 1201 (First-Year English), designed to cultivate and develop prose writing and related tools of scholarship. Reading and writing assignments focus on major works of literature. This course may not be taken on a Pass/D/Fail basis. Some students may gain exemption from the course with an Advanced Placement (AP) test score of 4 or 5. International students are required to

exhibit a degree of fluency before enrolling in this course. Transfers are not required to take this course but must have earned exemption or completed an equivalent course before graduation.

FOREIGN LANGUAGE

Students must achieve basic competence in one ancient or modern foreign language. The requirement is fulfilled by completion of the fourth sequential semester or a more advanced course for which the fourth semester is prerequisite. (In Latin, both Latin V 1201 and V 1202 or their equivalents must be completed.) The faculty recommends that in general (i) the intermediate year be completed at Barnard; (ii) elementary courses be completed in the first year; (iii) courses be taken consecutively without interruption; and (iv) proficiency be established by the end of the junior year. Reenrollment without credit is required for students whose work in any of the first three semesters is graded below C.

Exceptions:

1. Completion of Spanish BC 1208x for Spanish-speaking students (taken only with the instructor's permission) will qualify on recommendation of the instructor.
2. Enrolled students who complete the third or fourth semester of French outside the Barnard department must take a departmental examination to qualify for fulfillment.

Exemptions:

1. Re-centered CEEB-SAT II score of 781 or higher; re-centered CEEB SAT II score of 700 or higher in Hebrew only.
2. AP score of 4 or 5.
3. Departmental examination.
4. Students with native English who study in a high school where the language of instruction is not English (e.g., French, for alumnae of the Lycée Français).
5. For international students for whom English was not the primary language of instruction in high school, satisfactory completion of English BC 1201 or one satisfactory year at Barnard.

Placement:

1. Re-centered CEEB SAT II score of 680-780, fourth semester; 570-679, third semester; 400-569, second semester; below 400, first semester, for German.
2. Re-centered CEEB SAT II score of 690-780, fourth semester; 570-689, third semester; 420-569, second semester; below 420, first semester, for French and Spanish.
3. For languages other than French, Spanish, and German, placement will be determined by departmentally administered examinations.
4. For transfer students: the course following the level of the last satisfactorily completed semester course; however, formal withdrawal and reenrollment in a more suitable course may be required for students who are judged by the department to be inappropriately placed and in need of additional preparation or review. In such a case, transfer credit for the previous course is rescinded to allow the student to receive credit for the Barnard/Columbia course of equivalent level. Taking the departmental placement exam is recommended.
5. By departmental examination, if there is no CEEB score or previous college transfer work.

Please note that previous standards are in effect for students who took the College Board examination prior to re-centering in 1995.

Credit:

- 1. Credit is given for courses satisfactorily completed in residence at Barnard or, in the case of a transfer, at her previous college.
- 2. No prior assurance of degree credit is given for summer or transfer work in foreign language courses. For work completed at other colleges, credit is granted with departmental approval, or by examination, or on completion of the next level at Barnard.
- 3. No credit is granted for work equivalent to a level already completed and credited.
- 4. Although credit for the first semester of an elementary language is not normally granted unless a more advanced course is completed, a student is granted **one** exception maximum to this rule on written request to the Registrar.

LABORATORY SCIENCE

Students must complete one year of science (two semesters), with laboratory, in the same field. Acceptable courses must meet for at least three hours of lecture and three hours of laboratory per week. The student must pass both the lecture and the laboratory portion of the course, and the College strongly suggests that the two be taken concurrently. The following courses meet these requirements:

Astronomy	AST V 1753-1754 or AST C 1403-1404, both with the lab AST C 1903-1904
Biology	BC 1001-1002, 2001, 2002, 2003, 2004
Chemistry	BC 1601 and BC 1602 BC 1601 and BC 3230 with BC 3328 C 1403-C 1404 with C 1500 and one additional laboratory course, e.g., BC 1702, BC 3328, BC 3338, or C3543.
Environmental Science	BC 1001, 1002, V 1001, 1011-1012, S 1011-1012, V 2100, 2200, 2300 (any two) Students who have completed BC 1001 or V 2100 and subsequent- ly study at the Biosphere may complete the lab science requirement with the Biosphere work.
Physics	BC 1206-1208, F, V, or W 1201-1202, V 1301-1302, V 1305-1306, C1001, 1002 with BC 1091-1092
Psychology	BC 1105, BC 1108, BC 1117, BC 1123, BC 1127, BC 1130, BC 1136, BC 1156 (any two from different groups: see Major Requirements)

Students wishing to substitute a course sequence not given above, transfer students, and those with Advanced Placement should consult with the appropriate department chair for guidance with respect to fulfilling this requirement.

QUANTITATIVE REASONING

All entering students not exempt from the Quantitative Reasoning requirement must take the Basic Math Skills test during their first week of matriculation. Students with scores lower than 11 out of 20 must take QUR BC 1001, *Basic Math Skills*, during their first year at Barnard *before registering for any of the courses listed below that satisfy the Quantitative Reasoning Requirement*. Basic Math Skills topics are arithmetic (including fractions, decimals, and percentages), exponents and logarithms, equations and graphs, and word problems.

In order to graduate, students must pass one of the courses listed below in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. These courses can count both toward a major or distribution requirement and for the Quantitative Reasoning Requirement.

Students may fulfill the Quantitative Reasoning Requirement by securing Advanced Placement in mathematics, chemistry, computer science, or physics or transfer credit for a course listed below or for an equivalent course. A student who fulfills the Laboratory Science Requirement in chemistry, physics, or astronomy simultaneously satisfies the Quantitative Reasoning Requirement.

Astronomy	V 1753, V1754, C 1403-1404
Biology	BC 3386
Chemistry	BC 1601, C 1403, C 1404
Computer Science	Any course carrying degree credit <i>except</i> W 1001 CU Summer S1021D, S1022Q
Economics	BC 2411
Environmental Science	BC 3015 and BC 3016 (Both courses must be taken.)
Mathematics	Any course carrying degree credit
Philosophy	V 3411, V 3415 (F 3410 does not fulfill the requirement.)
Physics	Any course carrying degree credit
Political Science	BC 3345
Psychology	BC 1101
Quantitative Reasoning	All courses carrying degree credit <i>except</i> BC 1001
Sociology	V 3212
Statistics	Any course carrying degree credit
Urban Studies	UAF BC 3200 Program Evaluation: Methods and Case Studies

DISTRIBUTION

Courses satisfying Part A are identified in this catalogue by the letter H (for Humanities) or S (for Social Sciences) on the last line of the course description. Courses satisfying Part B are identified by the Roman numeral I, II, or III (corresponding to one of the three categories listed below) on the last line of the course description. When a course satisfies both Part A and Part B, its description will be accompanied by both the letter H or S and the Roman numeral I, II, or III.

In certain cases, it is possible to satisfy both Part A and Part B of the distribution requirement with the same courses, but all students must take at least two courses in the Humanities and two in the Social Sciences.

Part A:

Students must complete four one-semester courses outside the major, two in the Humanities and two in the Social Sciences. In each of these areas, only one of the two courses may be interdisciplinary.

The distribution requirement in the Humanities may be fulfilled by courses in Art History, Philosophy, Religion, Medieval and Renaissance Studies, any literature, the history or literature of music, the history of dance or theatre, or Humanities C 1001 or C 1002, and by designated courses in Asian and Middle Eastern Cultures, Pan African

Studies, or Women's Studies.

The distribution requirement in the Social Sciences may be fulfilled by courses in History, American Studies, Anthropology, Economics, Linguistics, Political Science, Sociology, or Contemporary Civilization C 1101 or C 1102, and by designated courses in Asian and Middle Eastern Cultures, Pan African Studies, Urban Studies, or Women's Studies.

Part B:

Students must complete four one-semester courses (transfers must complete three) chosen from the three categories listed below, with no more than two courses from any one category.

- I. Comparative Studies of Culture and Society
- II. Societies and Cultures of Asia, the Pacific, Africa, or the Middle East
- III. Societies and Cultures of Europe or the Americas

Courses taken for Distribution - Part B may also qualify to fulfill Distribution - Part A. Courses that qualify for the major or a minor may also qualify for Distribution - Part B.

PHYSICAL EDUCATION

Students admitted as first-year students must complete two semesters of Physical Education at Barnard. One semester must be passed in the first year and the requirement must be successfully completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of Physical Education at Barnard. Transfers are expected to complete their requirement by the end of junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. Physical Education courses are graded pass-fail based on attendance and participation. Studio Dance courses may be taken to fulfill the Physical Education requirement.

ELECTIVES

Apart from fulfilling general education requirements and major requirements, the student completes the remainder of the 120-point requirement with elective courses, either within or outside the major department, subject to the approval of the appropriate adviser.

No more than 18 points of studio, performing arts, or professional school courses (including film) may be credited toward the A.B. degree. Of these, a maximum of four arts studio courses may be credited. A maximum of six courses in instrumental instruction may be credited (except for Music majors and minors, who may take eight, including piano instruction).

One-point dance technique courses taken by non-dance majors for credit are also included in the existing 18-point maximum which may be credited toward the degree. A maximum of six courses in dance technique may be credited; however, a student does not receive academic credit for a dance technique course until she has completed or is currently completing the Physical Education requirement.

Exceptions to this rule are allowed only for courses in the major field or for courses taken in fulfillment of requirements for double and joint degree programs with the professional schools of the University. A maximum of 24 points may be credited for studio or performance courses in the major field. A minimum of 90 points of traditional liberal arts courses is required for the student who majors in such a field; for all other majors, a minimum of 102 points of such courses is required.

LENGTH OF RESIDENCE

Students with no transfer credit are expected to be registered full-time (12 points minimum) for four years. Transfer students must complete at least 60 points and two years full-time in residence at Barnard to receive the degree (see below for additional information). Under certain conditions, it is possible for a senior to complete her work for the degree while registered in absentia, with the permission of the Committee on Programs and Academic Standing.

REQUIREMENTS FOR TRANSFER STUDENTS

A student admitted to Barnard with fewer than 24 points of credit is considered a first-year student and is subject to all requirements for first-year students, including First-Year Seminar, two semesters of Physical Education, and four courses in Distribution-Part B. A student admitted with 24 credits or more is considered a transfer student. To receive the A.B. degree at Barnard, a transfer student must attend Barnard for at least four regular academic terms during which she must complete at least 60 points, including at least six courses in the major field (and three in the minor field, if a minor is elected). Additional major (and minor) courses, as well as general education requirements, may be satisfied by transfer courses. Exemption from the foreign language requirement may be attained on the basis of College Entrance Examination Board Achievement scores alone or by a combination of those scores and additional college work. Those who do not receive exemption must complete the normal language requirement (see page 33). Transfer students are eligible for general honors when both overall and Barnard averages meet the required academic standards.

TRANSFER CREDIT

Courses completed at other accredited colleges and universities which are similar in content and depth to Barnard courses may be submitted for transfer credit. Transfer courses are evaluated after a complete transcript is received in the Office of the Registrar. Students are asked to submit catalogues and course descriptions with their requests for transfer credit to the Registrar, who notifies them of the evaluation by mail.

Credit for approved work at another institution is applied to Barnard's 120-point graduation requirement with a maximum of 16 points per term. Credit cannot be granted for courses with grades lower than C minus. Acceptable transfer work does not usually include applied or professional courses or more than the equivalent of two Barnard studio courses. The first term of an elementary language course is not normally credited unless or until the second term or a more advanced course has been satisfactorily completed, but a student may request a single exception to this ruling.

Transfer students may apply for credit for previous summer courses under the regulations governing summer study (see page 41).

First-year students with a record of prior coursework taken as non-matriculants at an accredited college in the United States may request up to 15 points of transfer credit. Such work will be evaluated after the student has completed 12 points at Barnard. Grades for this course work are included in the overall average (see page 22).

CLASSIFICATION OF STUDENTS

Students are classified as follows:

Matriculated	Points completed
First year	fewer than 24
Sophomore	24-51
Junior	52-85
Senior	86 or more
Unclassified	transfer students who have not yet been assigned credit

Non-matriculated:

- Other college degree candidates (visiting students)
- Barnard alumnae auditing courses
- Barnard alumnae taking courses for credit
- Any other student who is not a degree candidate

A degree candidate (i.e., a student who is matriculated) is expected to be enrolled for at least 12 points each term and may not change her status to non-matriculated.

FILING OF DIPLOMA NAME CARDS

The Diploma Name Card, available in the Office of the Registrar, is the student's official notification to the Registrar that she expects to have completed all requirements for the degree and to receive the diploma on a particular graduation date. Degrees are granted in May, October, and February. The filing of the card sets in motion the processing of the student's academic records in preparation for graduation. It is the student's responsibility to file the Diploma Name Card before published deadlines (see College Calendar). Graduation ceremonies are held in February and May.

OTHER ACADEMIC OPPORTUNITIES

MINOR

The selection of a minor field of study is optional. A minor requires at least five courses (three of which must be qualifying Barnard or Columbia courses) that total a minimum of 15 points, and may be designated by any student having a major after completing a minimum of three courses in the minor field. Requirements depend on the minor chosen (see individual department curriculum statements); courses are selected in consultation with the department chair. Two of the courses taken for the minor may be used to fulfill the distribution requirement if the field selected qualifies for the requirement (see page 32). Courses for the major and minor may not overlap. To qualify for the minor, a course must be letter-graded A–C.

SENIOR SCHOLAR PROGRAM

The Barnard Senior Scholar Program allows a qualified student to undertake a single project for the entire senior year, or for one semester of the senior year (normally the second). The Program is intended for the student who is unusually well prepared in an academic discipline or in one of the performing arts. It offers the special advantages of concentration on one project, designation as Senior Scholar on the permanent transcript, and the amendment of some major requirements. Senior Scholars are allowed credit for no more than 30 points for the project. In the past, Barnard Senior Scholars have gained approval for a wide range of proposals.

A qualified student interested in the Senior Scholar Program should consult the Senior Class Dean in the Office of the Dean of Studies, who is coordinator of the program, in her junior year. Before the beginning of the senior year, the student should have completed all but the major requirements for the A.B. degree. Her written application for the Senior Scholar Program is submitted to the Committee on Honors for approval.

CENTENNIAL SCHOLARS PROGRAM

The Centennial Scholars Program offers students of outstanding achievement and ability an opportunity to engage in challenging independent projects tailored to their individual interests. Supplementing the regular Barnard curriculum, the program enables Centennial Scholars to pursue individual objectives in specialized areas with the assistance of mentors chosen in consultation with the program directors.

Admission to the Centennial Scholars Program is based on evidence of intellectual creativity and advanced academic preparation. While many of the students in the Program are selected at the time of their admission to the College, the Program is also accessible to enrolled first-year students and sophomores who distinguish themselves during their first terms at the College.

The Program confers a maximum of 18 points of credit toward the degree. In the spring of the student's first year as a Centennial Scholar, she enrolls in CEN BC 1889 "Working With Ideas," an interdisciplinary course designed to lay the foundation for the core of the Program, an extended apprenticeship with her mentor(s). Her project may extend over two or three semesters and may include a summer to accommodate travel or other particular needs. The Program culminates in the Centennial Scholars Symposium, which is devoted to the public presentation of the project in the term of its completion. Dinner lectures and outings to museums, artists' studios, and research laboratories and similar activities are additional features of the Program.

OTHER ACADEMIC OPPORTUNITIES

The Centennial Scholars Program is governed by a committee consisting of the following members:

Leslie Lessinger, Co-Director, *Professor of Chemistry*

Helene Foley, Co-Director, *Professor of Classics*

Dorothy Denburg, *Dean of the College*

Serge Gavronsky, *Professor of French*

Timothy Halpin-Healy, *Associate Professor of Physics*

Doris Davis, *ex-officio, Dean of Admissions*

Ellen Kreger, *ex-officio, First-Year Class Dean*

WRITING FELLOWS PROGRAM

The Writing Fellows Program offers exceptional students with strong writing, reading, and communication skills an opportunity to become peer-tutors in writing. During their first semester in the program, students take a seminar and practicum in the teaching of writing (see page 146: *The Writer's Process*), usually in the Autumn term of their sophomore or junior year. As Writing Fellows, they go on to work in a number of different settings (e.g., The Jong Writing Center, writing-intensive courses across the curriculum) with Barnard undergraduates at all levels and in all disciplines. Writing Fellows receive a stipend and are asked to make a commitment of three semesters to the program.

HIGHER EDUCATION OPPORTUNITY PROGRAM

The Higher Education Opportunity Program, a support service to meet the needs of New York State undergraduates from backgrounds that are disadvantaged economically and academically, provides counseling, tutoring, and financial assistance. During a summer program, all incoming HEOP students receive instruction in English, mathematics, research, and public-speaking skills. During the academic year, tutoring, workshops, and study groups are available in addition to academic and personal counseling.

PROGRAM PLANNING FOR STUDENTS INTERESTED IN HEALTH PROFESSIONS

The basic premedical and predental requirements are two semesters of introductory biology and one or two semesters of biology laboratory, all at the 2000 level or higher (BIO BC 2001, BC 2002, and laboratory BC 2003 and BC 2004); two semesters of general chemistry and one semester of laboratory (CHE BC 1601, BC 3232); two semesters of organic chemistry and one semester of organic laboratory (CHE BC 3230, BC 3231, BC 3328); two semesters of physics with accompanying laboratory (PHY V 1003-1004; V 1103-1104; BC 1206-1207); and two semesters of English. Highly recommended courses, required by some schools, are two terms of calculus or other college-level mathematics and one additional chemistry laboratory (CHE BC 3338 or BC 3340).

Students should become familiar with the most recent edition of *Medical School Admissions Requirements*, an annual publication of the Association of American Medical Colleges, and Barnard's own *Handbook for Students Entering the Health Professions*, copies of which are available in 105 Milbank. The latter deals with many of the health professions (nursing, optometry, podiatry, physical therapy, and public health) as well as medicine and dentistry.

Pursuing a major in the sciences is not necessary for premedical students, provided they include the aforementioned required courses in their programs. The science requirements should be completed in the year prior to the year of desired entry, at which time students are advised to take the Medical College Admissions Test, normally offered in April. The test is repeated in the early fall for those who wish to retake it or who, for compelling reasons, were unable to take it in the spring.

All students who are interested in the health professions should consult their advisers as early as possible and should start a file with the pre-professional assistant and consult the designated dean in the Office of the Dean of Studies by the junior year at the latest.

Applications for the standardized tests, school catalogues, and other relevant materials are available in 105 Milbank.

PROGRAM PLANNING FOR LAW SCHOOL APPLICANTS

There are no specific course requirements for entry to law school, nor is there any specifically recommended major. Admission to law school is based largely on grade point average and Law School Admission Test scores, although other factors are taken into account. Students are encouraged to develop strong skills in writing and in speaking with precision and to take programs that require demanding critical analysis and effective study habits. Information about law schools and what makes a good lawyer can be found in the *Official Guide to U.S. Law Schools*, an annual publication of the Association of American Law Schools. Copies may be read in the Office of the Dean of Studies, 105 Milbank, which also maintains a library of current law school catalogues and other relevant information.

Students are encouraged to consult the designated dean in the junior year or earlier. The LSAT should be taken in June or October of the year prior to expected entry to law school; the June test is recommended because it allows for better planning. Applications for the LSAT and for the Law School Data Assembly Service (a required transcript analysis procedure) arrive in March each year and can be picked up in 105 Milbank anytime thereafter.

PROGRAM PLANNING FOR STUDENTS INTERESTED IN JOURNALISM, SOCIAL WORK, AND BUSINESS

Curricular planning should be made with an eye to some of the specific requirements in each of these fields. Familiarity with professional school catalogues in these areas is recommended. Information and printed literature is available in the Office of the Dean of Studies and in the Office of Career Development.

CREDIT FOR SUMMER STUDY

The granting of course credit for summer courses taken at other accredited institutions (including Columbia) is treated as transfer credit and is subject to some additional regulations. The maximum number of summer points that can be applied toward the degree for course credit is 16, subject to the approval of the Committee on Programs and Academic Standing. Although a student may not receive degree credit for summer courses exceeding this maximum, she may fulfill degree requirements with additional summer courses, subject to the approval of the Committee on Programs and Academic Standing, and in some cases, subject to satisfactory performance on a Barnard placement examination. The full regulations on credit for summer study are available at the Office of the Registrar on the Application for Approval of Summer Session Courses. The student may learn in advance whether the courses she wishes to take in summer school meet the approval of the Committee on Programs and Academic Standing by completing the form and submitting

OTHER ACADEMIC OPPORTUNITIES

it to the Office of the Registrar well before the end of the Spring term. Although the application may also be retroactive, the student places herself at risk of being denied degree credit if she fails to receive prior written approval from the Committee. The student is advised to consult the application for the full regulations, some of which are listed below:

1. No more than eight points may be counted for one five- or six-week summer session.
2. To be eligible for credit, a course normally must meet for at least five weeks and at least 35 hours.
3. Grades for courses taken in summer school must be letter grades of C- or higher; they are not included in the Barnard grade point average but they will be included in the calculation for Latin honors. These courses and grades will, however, be considered for admission to graduate or professional schools, which normally require the submission of an applicant's transcripts from all the colleges attended.

STUDY ABROAD

Several options for study abroad are available to academically qualified Barnard students. The Faculty has set the following guidelines for eligibility. By the time they plan to study abroad, students should:

- be competent in the language of instruction abroad, or, when the language of instruction is English, have some knowledge of the language of the host country;
- have completed all or nearly all of the basic requirements for the degree;
- have no outstanding Incompletes;
- have a good academic record;
- have worked out, in consultation with the major and study abroad advisers, a plan for the completion of all major and college requirements for graduation.

The educational interests of each applicant are of primary concern to the staff of the Dean of Studies in acting on a student's request to study abroad for degree credit. Interested students should begin the process of applying to study abroad by consulting the dean responsible for study abroad advising in the Office of the Dean of Studies during the first semester of the sophomore year. Students must obtain the approval of the study abroad adviser, the class dean, and the major adviser in order to receive the College's permission to study abroad for credit toward the Barnard degree.

Barnard offers opportunities for junior-year students to study in Great Britain at Oxford (St. Peter's and Somerville Colleges), Cambridge (Newnham College), The University of London (University College, London School of Economics, Queen Mary and Westfield College, and King's College), and the University of Warwick. Admission to these colleges is competitive.

Barnard students who wish to study for degree credit in Paris may apply to the **Reid Hall** program, which offers a varied and attractive curriculum in French language, literature, culture, art history, political science, history, philosophy, film studies, and women's studies. In addition to the courses offered at Reid Hall, students with sufficient preparation may, through this program, enroll in courses in the French university system in a variety of academic disciplines. To qualify for admission to Reid Hall, a student must have completed two years of college French with grades of B or better. It is possible to spend one term or an academic year in Paris. Each term, over 100 students take part in this program. Some are French majors, but most are not. The student body comprises undergraduates from Barnard and Columbia, as well as those from other colleges and universities. Reid Hall is owned and administered by Columbia University. It is located in the Montparnasse district of Paris, near Luxembourg Gardens. The administrative staff of Reid

Hall assists students in planning academic programs and in finding housing accommodations. Credit is awarded for no other programs in Paris.

Barnard students who wish to study for degree credit in Germany may apply to the **Berlin Consortium for German Studies** program, based at the Free University of Berlin. This program makes it possible for humanities, science, and social science majors who have completed at least two years of college German or the equivalent to become German university students for an academic year or semester. The program involves full immersion into the German language, enrollment directly into courses shared with German students, access to university libraries and student housing, internship opportunities during vacation periods, and maximum exposure to contemporary German cultural and political life. The program is administered by Columbia University and both a full-time academic director and resident director located at Free University assist students in planning academic programs.

Bulletins and applications for both Reid Hall and the Berlin Consortium are available in 303 Lewisohn Hall and in 105 Milbank. Interested students should consult the dean responsible for study abroad advising in the Office of the Dean of Studies to discuss their plans and to have the dean review and sign their applications. To receive degree credit for courses taken at Reid Hall or the Berlin Consortium, the approval of the Committee on Programs and Academic Standing is required on a special form available at the Office of the Registrar.

Barnard also participates in the program of the **Intercollegiate Center for Classical Studies in Rome**. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major, and in some cases, toward the fulfillment of the distribution requirements.

Barnard is a Supporting Institution of the **American School of Classical Studies at Athens** and the **American Academy in Rome**, and certain privileges of those schools are available, without fee, to graduates of the College.

Barnard also offers the opportunity for study in Japan at the **Kyoto Center for Japanese Studies** through its participation with Columbia in a consortium organized by Stanford University and several other institutions, in Spain through the **Boston University Program** in Madrid, and in countries throughout the world as a result of Barnard's membership in the Council for International Educational Exchange.

Course credit for courses taken at institutions abroad other than the Barnard-Columbia programs in Paris and Berlin is generally treated as transfer credit (see page 37).

STUDY AT JEWISH THEOLOGICAL SEMINARY

The Jewish Theological Seminary of America, located two blocks from the Barnard campus, offers opportunities to Barnard students for specialized study under a cooperative arrangement. Students may enroll in courses at the Seminary under any of three options: (1) individual courses; (2) a year's study in residence at the Seminary; or (3) a double degree program.

A student wishing to study at the Seminary should consult her adviser and obtain the written permission of the chair of her major department. Courses taken at the Jewish Theological Seminary are evaluated as transfer credit (see page 37 for rules on transfer credit). Students who wish to obtain simultaneously the degree of Bachelor of Arts from Barnard and Bachelor of Hebrew Literature from the Seminary must consult the appropriate dean in the Office of the Dean of Studies at Barnard and at the Seminary's List College and must be separately admitted to each institution.

OTHER ACADEMIC OPPORTUNITIES

Qualified Barnard students may request housing at the Seminary. Double-degree students who enroll in the Seminary College will be subject to both Barnard and Seminary tuition charges, adjusted on a pro-rata basis. Students taking individual courses pay the Seminary directly for those courses at an adjusted rate.

STUDY AT THE JUILLIARD SCHOOL

The Juilliard School at Lincoln Center offers opportunities to Barnard students for individual courses in music. For a five-year program leading to the Barnard A.B. and the Juilliard M.M., rigorous auditions are required for which early application must be made. Students interested in these options may obtain further information and audition dates by consulting Dr. Gail Archer, Coordinator of the Barnard Music Program (319 Milbank), at the time of admission to Barnard or as early as possible.

STUDY AT THE MANHATTAN SCHOOL OF MUSIC

The Manhattan School of Music is located one block to the north of the Barnard campus. Under a cooperative program of cross-registration, musically qualified Barnard students who pass required auditions have the opportunity to enroll in six semesters of private instrumental lessons at the Manhattan School, subject to the regulations specified in the application form available at the Office of the Registrar. Majors and minors in Music may take eight semesters of lessons. Students must complete a Barnard approval form before receiving permission to enroll at the Manhattan School.

SPECIAL ACADEMIC PROGRAMS

Barnard offers a summer academic program for secondary school students, "Summer in New York: Barnard's Pre-College Program." Program information and applications are available in the Office of the Pre-College Program, 8 Milbank Hall.

DOUBLE AND JOINT DEGREE INTRAUNIVERSITY PROGRAMS

Barnard offers double and joint degrees in coordination with other schools in the University system, including the School of International and Public Affairs (SIPA), the School of Engineering, the School of Law, and the School of Dental and Oral Surgery. Details on specific programs are given below.

SCHOOL OF INTERNATIONAL AND PUBLIC AFFAIRS: INTERNATIONAL AFFAIRS

Barnard College and the Columbia University School of International and Public Affairs offer a joint program leading to the A.B. degree at the end of four years and the Master of International Affairs (M.I.A.) after one additional year.

Application to this program is made through the Office of the Dean of Studies by March 1 of the junior year, but to ensure appropriate guidance and preparation, consultation is recommended in the sophomore year with the appropriate dean in the Office of the Dean of Studies at Barnard. Qualified students nominated by the Office of the Dean of Studies complete the application, which is sent to the School of International and Public Affairs. Finalists will be interviewed by an admissions officer at SIPA. The final decision on admission to the program rests with the SIPA Review Committee. Acceptance for the joint program is a provisional admission to SIPA for the M.I.A. degree. All provisionally admitted students will be required to submit a formal application to SIPA in the spring semester

of the senior year. Formal applications for fellowship consideration are due by January 15; otherwise, applications are due by April 15.

A Barnard student's eligibility for the joint program with SIPA is governed by the following conditions:

1. A minimum grade point average of 3.3.
2. At least four semesters of matriculation at Barnard before enrolling in the joint program.
3. Fulfillment of all basic and distribution requirements before the senior year.
4. No more than four courses in the major to be completed during the senior year.
5. Completion of introductory courses in microeconomics and macroeconomics and a strong background in quantitative courses.

A Barnard student in the program must satisfy all Barnard degree requirements. Courses in the School of International and Public Affairs may be used to fulfill major requirements only with the written permission of the chair of the major department. As a senior, after consultation with a SIPA dean and her major adviser at Barnard, she will elect 15 to 18 points of SIPA coursework, including a substantial part of the SIPA Core "A" Requirement. A typical program would include most of the 12 points of coursework at the 4000 level or above in the following areas:

- International politics
- Foreign historical and political processes
- International law
- United States foreign policy
- International policy analysis and management
- Graduate-level economics

A grade of B or better is required in courses to be credited toward the M.I.A. degree.

SCHOOL OF INTERNATIONAL AND PUBLIC AFFAIRS: PUBLIC POLICY AND ADMINISTRATION

Barnard College and the Columbia University Graduate School of International and Public Affairs offer a joint degree program leading to the Bachelor of Arts degree at the end of four years and the Master of Public Administration (M.P.A.) after one additional year.

Application to the program is made directly to the Graduate Program in Public Policy and Administration at the School of International and Public Affairs, but the designated dean in the Office of the Dean of Studies should be consulted before the application is filed, preferably as early as the sophomore year. Admission to the joint program does not constitute automatic admission to the M.P.A. program. The student in the joint program applies for admission to the graduate program in the autumn term of her senior year. Final admission is conditional upon the applicant's receiving the A.B. degree from Barnard.

A Barnard student in the joint program must satisfy all basic, distribution, and major requirements for the A.B. degree at Barnard. Courses in the graduate program may be used to fulfill major requirements only with the written consent of the chair of the department in which the student is majoring. During the junior and senior years she must complete at least 24 points of course work at the 4000 level or above, including the first-year required core courses specified in the Bulletin of the Graduate Program in Public Policy and Administration. An internship, usually during the summer between the fourth and fifth years, is also required. In the fifth year of the program, a student completes at least 30 points, including a workshop and policy specialization requirements.

OTHER ACADEMIC OPPORTUNITIES

SCHOOL OF LAW

Each year Barnard College has the option of nominating, in conjunction with the Columbia University School of Law, two juniors with outstanding records to enter the Law School under the Accelerated Program in Interdisciplinary Legal Education (A.I.L.E.).

Each student must submit a record of 90 points, 60 of which will have been completed at Barnard. She must have fulfilled all degree requirements except those for the major, which she must be able to complete together with the final 30 points at the Law School. Twelve of the 30 must be in the liberal arts and the remainder in appropriate law courses.

To be nominated, a student must have an outstanding academic record (3.6 average or above) and have taken the LSAT by March of her junior year with a score in keeping with the median level of applicants accepted to the Columbia Law School in that academic year.

Students interested in the program should consult the Pre-law Dean in the Office of the Dean of Studies early in the junior year and with the Senior Class Dean to ensure fulfillment of graduation requirements. LSAT applications are available in the Office of the Dean of Studies; the test is usually offered in June, October, December, and February.

SCHOOL OF DENTAL AND ORAL SURGERY

A limited number of qualified students may enter the Columbia University School of Dental and Oral Surgery after three years of undergraduate work at Barnard. To be eligible for this program, the student must have completed 90 points of academic work at Barnard and all of the prerequisite courses for the School of Dental and Oral Surgery. To be eligible for the A.B. degree, she must have completed 120 points, 30 of which may be taken at the School of Dental and Oral Surgery, and she must have completed all of the general and major requirements of Barnard College.

A student interested in this option should consult with the health professions dean in her sophomore year for early program planning. Before her admission to the School of Dental and Oral Surgery, she should consult with the Senior Class Dean to make certain that she will be eligible for the A.B. degree.

SCHOOL OF ENGINEERING AND APPLIED SCIENCE

Barnard College and the Columbia University School of Engineering and Applied Science offer undergraduate programs in the professional branches of engineering and in the applied sciences under a cooperative program. In addition to the general admission requirements, course work in mathematics through trigonometry, physics, and chemistry is desirable for entering students interested in engineering or applied science.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College with a few courses taken in the School of Engineering and Applied Science. During the junior year the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. Completion of the basic, distribution, major, and physical education requirements is required for the Barnard A.B. degree. A maximum of 30 points may be credited for engineering courses. Students interested in the program are encouraged to consult the designated dean in the Office of the Dean of Studies to plan an appropriate schedule of courses.

AUDITING

STUDENT AUDITING

Matriculated students may audit courses in special instances by arrangements with the instructors. Permission to audit a course is granted at the instructor's discretion. Courses audited do not appear on the student's program or transcript, are not graded, and may not be subsequently converted to credit courses.

ALUMNAE AUDITING

Many Barnard courses are open to alumnae for auditing. No credit is given; there is no charge. The only requirement is that permission of the instructor must be obtained. Those interested in this program should contact the Alumnae Office and request a copy of the current catalogue and information about procedures.

REGISTRATION

REGISTRATION FOR NEW AND CONTINUING STUDENTS

Instructions and materials for registration are enclosed in individual packets distributed to students on the days designated for registration.

Students are expected to register during the registration times published in the College Calendar. Permission to register may be refused to students who do not observe the deadline for registration. Those students who have permission to register late will be assessed additional fees, as posted at the Registrar's Office.

Bills for tuition and fees (see page 23) are mailed before the beginning of the semester, and payment must be received by the deadline published in the College Calendar. In addition, any outstanding debts to the College or University, including library fines, must be paid before the student may register.

The final stage of the registration process is program filing (see below), which must be completed by the deadline published in the College Calendar. If for some extraordinarily compelling reason a student must enroll in less than a full-time program, the written permission of her Class Dean in the Office of the Dean of Studies is required.

REGISTRATION FOR RESUMED EDUCATION STUDENTS

Resumed Education students are those Barnard students who have been away from the College for five years or more and are returning to complete the A.B. degree requirements and those Barnard graduates who are returning to the College to take additional course work. Resumed Education students are subject to regular registration procedures and deadlines.

REGISTRATION FOR COLUMBIA UNIVERSITY COURSES

Many courses offered in other divisions of the University are open to qualified Barnard students; those cross-listed in the Barnard Catalogue do not normally need special approval; no undergraduate courses listed in the Columbia College bulletin need special approval unless so indicated in the course description. Other courses not cross-listed in the Barnard Catalogue may require divisional or instructor's approval in addition to the approval of the student's academic adviser. Columbia University courses are entered on the Barnard program; specific instructions are enclosed in the registration packet. The student is expected to have reviewed the course description and prerequisites before consulting an adviser, to determine for herself whether she is eligible to enroll.

Certain Columbia courses are limited in enrollment. Barnard students wishing to register in such courses must take part in the limited-enrollment procedures.

Only students enrolled in the Education Program are eligible to take the Teachers College methods courses cross-listed in the catalogue. All Teachers College courses that are not cross-listed require approval of the Barnard Dean of Studies by submission of an approval form during the first week of the term, and also require payment of Teachers College tuition charges over and above Barnard tuition.

STUDENT PROGRAMS

PROGRAM FILING

The list of courses for which the student is registered each semester is known as the student's program.

Each student is required to schedule and attend a program-planning meeting with her adviser before the end of each semester (see College Calendar) and to consider carefully and seriously her selection of courses for the following semester.

During the program-planning period each student files her program for the following semester with the Registrar.

During this period, various departments post sign-up sheets for laboratory courses, sectioned courses, and limited-size courses. A student who wishes to enroll in such a course or courses must enter her name on these sheets to ensure a place for the following semester.

Between registration and the date for program filing a student is required to reach a final decision on the courses she will take for the term. The final program, signed by her academic adviser, is filed at the Office of the Registrar by the published deadline. There is **no refund** issued for courses dropped after the published deadline for program filing, and any part-time program filed after that date will be assessed full tuition.

Note: the deadline for submission of programs is separate from, and somewhat later than, the registration deadline (see College Calendar). Programs filed late must be approved by each instructor and the Committee on Programs and Academic Standing, and will be assessed additional fees, which will be posted at the Registrar's Office. A student who is allowed to add a course after the deadline will be liable for tuition charges for the added course as well as the courses on her filed program, even if she also drops a course. A student who neglects to file a program is subject to academic probation.

ADJUSTMENT OF FEES AND REFUNDS FOR CHANGING PROGRAM OF STUDY

If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration of her program is made by September 12 (last day of program filing) in the Autumn term and by January 30 in the Spring term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

SCHEDULE OF CLASSES AND ROOM ASSIGNMENTS

Class times and room numbers are published in the Schedule of Classes, available during registration. Final information on changes in Barnard-taught courses (class times and rooms) is posted at the Registrar's Office and on the computer network. Disabled students needing wheelchair-accessible classrooms should provide this information to the Registrar during program planning.

COURSES WITH LIMITED ENROLLMENT

Enrollment in certain courses is strictly limited and students are encouraged to indicate their intent to enroll in those courses well before registration by entering their names on sign-up sheets which are posted outside departmental offices and which list criteria for course enrollment.

ADDING COURSES

Courses may not be added after the deadline for filing academic programs. Up to that deadline, the student may add courses either on the program form, if she has not already submitted it, or by an Application to Add a Course, available at the Office of the Registrar. Adding a course requires the signature, on either the program or Add form, of the class adviser (for a first-year student or sophomore) or the major adviser (for a junior or senior).

REGISTRATION

DROPPING COURSES

Courses may be dropped by submission of an Application to Drop a Course, available at the Office of the Registrar. The form requires the signature of the class adviser (for a first-year student or sophomore) or the major adviser (for a junior or senior), and must be returned to the Office of the Registrar before the deadline published in the College Calendar. Courses dropped by the deadline will not be recorded on the permanent transcript. If withdrawal from a course is approved after the deadline to drop and by the deadline to withdraw, the course will be recorded on the permanent transcript with the notation W (Withdrawal). Action on any course which ends prior to the above dates must be taken before the last class meeting. No adjustment of fees (including any laboratory fees) is made for any course dropped after the deadline for program filing.

ATTENDANCE

Students are expected to attend classes regularly. Frequent or prolonged absences from classes may cause a student to forfeit the right to complete coursework or to take final examinations. A prolonged or serious illness is considered an excuse for absence only if the student files a statement signed by her physician with the Office of Health Services immediately upon her return to a regular attendance schedule.

POLICY ON RELIGIOUS HOLIDAYS

It is the policy of Barnard College to respect its members' observances of their major religious holidays. Conflicts with such holidays will normally be avoided in the scheduling of required academic activities and essential services, including registration deadlines that are part of the academic calendar, and final examinations.

In any instance of unforeseen or unavoidable scheduling conflict, student and instructor will work out suitable arrangements for satisfaction of academic requirements; in some instances, consultation with a dean or director may be appropriate. A listing of major religious holidays is distributed before the Autumn term to all faculty and administrators.

WITHDRAWAL AND READMISSION

A student not subject to discipline for infraction of College rules may withdraw from the College during the semester by submitting a "Notice of Withdrawal" form to the Office of the Dean of Studies with the signature of the parent or guardian before the withdrawal deadline. If the student withdraws during the semester without submitting the proper notification, the term's work is subject to a grade of UW. (For information on partial refund of tuition, see page 25.) A student who plans to withdraw following the completion of a term must also file the appropriate form in the Office of the Dean of Studies. Withdrawals should be discussed with a student's academic adviser and Class Dean in advance of submitting the form. Confirmation of the withdrawal, and procedures and conditions for readmission, will be sent to the student upon receipt of the Intention to Withdraw form.

Readmission of students who have withdrawn from (or been withdrawn by) the College for non-academic reasons, including health or disciplinary reasons, will be considered by the Committee on Evaluation, composed of representatives from the offices of Student Life, Dean of Studies, Health Services, and Disability Services.

Students who wish to request readmission to the College must submit a letter to the Dean of Studies, with reasons for the request, by April 1 for an Autumn term return and by November 1 for a Spring term return. A Health Services evaluation and recommendation is usually required for Committee consideration.

The Evaluation Committee also meets regularly throughout the academic year to discuss issues concerning students who are experiencing difficulties in academic, residential, and extracurricular life at the College. The Committee identifies available support services both on- and off-campus in order to assist students encountering difficulties. Finally, as needed, it considers the advisability of a student's withdrawal from the College for non-academic reasons. A description of the Committee and its procedures is available in the offices of the Dean of Studies and the Dean of Student Life.

EXCEPTIONS TO COLLEGE REGULATIONS

Requests by students for exceptions to college regulations governing the awarding of academic credit and requirements for the degree may be addressed to the Faculty Committee on Programs and Academic Standing. Petition forms are available at the Office of the Registrar and should be returned there. Requests which bear the appropriate signatures of advisers and instructors normally receive consideration within two weeks of their submission.

EXAMINATIONS

LANGUAGE PLACEMENT EXAMINATIONS

The foreign language requirement can be met by completing the required courses at Barnard (for individual languages see departmental curriculum statements), or by a College Entrance Examination Board (CEEB) score of 781 (700 or above in Hebrew), or, for transfer students, by having completed acceptable qualifying language courses.

Transfer Students

A transfer student who has a CEEB score is placed according to that score alone, if she has had no previous college language courses. The determination is made according to the provisions of an established scale (see page 33). A transfer student who has no CEEB score or previous college language courses must, if she wishes to continue with a particular language, take a placement test. Transfer students who are not required to take an examination are notified of language placement along with the evaluation of their transfer credit.

First-Year Students

First-year students are placed (or exempted) on the basis of their CEEB scores. Those with no scores who wish to continue languages studied in high school take placement examinations. The Class Dean advises all new first-year students of their language requirements.

Summer School Language Courses

Students, other than incoming transfer or first-year students, who take summer language courses and wish exemption or placement in their continuing language studies must take a language placement examination or secure departmental approval to receive degree credit and enter a higher level.

A student who does not wish to continue with a language in which she has been placed may begin the study of a new language.

Information about Language Placement Examinations is available at the Office of the Registrar; the examination dates are published in the College Calendar. The examinations are evaluated and placement is made by the appropriate departments. Results are posted at the Office of the Registrar.

OTHER DEPARTMENTAL PLACEMENT EXAMINATIONS

Students may obtain exemption from or placement in certain courses by means of departmental placement examinations (for example, in the Mathematics and Physics departments). Information and applications for the examinations are available in departmental offices, and deadlines are particular to each department.

MAKE-UP EXAMINATIONS DURING THE TERM

Instructors are not required to give make-up examinations to students absent from previously announced tests during the term. An instructor who is willing to give a make-up test may request a report of illness or acceptable evidence of other extenuating circumstances from the appropriate class dean in the Office of the Dean of Studies.

FINAL EXAMINATIONS

No class meetings will be held on required reading days as set forth in the College Calendar. The dates for final examinations, given at the end of each term, are published in the College Calendar. Exact times and room numbers for individual examinations are sent to each student and posted on the bulletin board at the Office of the Registrar at least two weeks in advance of final examinations.

Barnard examinations are given under the Honor Code, which states that a student should not ask for, give, or receive help in examinations, nor should she use papers or books in a manner not authorized by the instructor. She should not present work that is not entirely her own except in such a way as may be approved by the instructor. The Honor Code further implies that any student or member of the faculty who has firsthand knowledge of a violation of these rules has an obligation to report it to the Dean of Studies or Honor Board.

A student who wishes to leave the room before the end of the examination period will submit her blue books to the instructor. If a student becomes ill during the course of the examination, she must notify the instructor and go to the College Physician, Brooks Hall, Lower Level. If less than an hour has expired, a grade of DEF will be recorded on the transcript and she will take a deferred examination. If a student remains for more than one hour of a three-hour examination, she will be graded on the work she has completed.

DEFERRED FINAL EXAMINATIONS

Deferred final examinations, given in September and January (see College Calendar), are open only to those students who were absent from the regular examinations for reasons of illness or emergency. An instructor may decline to give a deferred examination to a student whose attendance has been unsatisfactory. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence from final exams for reasons of health or other emergencies must be reported to the instructor and to the Office of the Dean of Studies in person or by telephone on the day of the examination. In case of an emergency, the Dean of Studies should be notified. For Columbia-taught courses, the instructor or the Columbia department must also be informed.

Examinations missed in December are to be taken the following January or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a compelling and valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. Applications for deferred examinations are filed with the Office of the Registrar. A payment of a \$10 handling fee for each examination must accompany the application.

EXAMINATIONS FOR STUDENTS WITH DISABILITIES

Individual arrangements can be made for disabled students unable to take examinations in the usual manner. Disabled students are normally expected to take their exams with the rest of the class, with disability-related modifications as needed. Students with disabilities who require nonstandard administration should consult with their instructors and the Director for Disability Services about reasonable accommodations. Students should obtain copies of the Test Accommodations Form in Room 7 Milbank and return them at the beginning of each semester.

GRADING AND ACADEMIC HONORS

GRADING SYSTEM

Academic standing and eligibility for graduation are determined by both the number of courses completed and the grades achieved. The system used at Barnard is as follows:

A+, A, A-	Excellent
B+, B, B-	Good
C+, C	Satisfactory
C-, D	Unsatisfactory but passing
F	Failure
P	Passed without a specific grade on student's election of P/D/F option
P*	Passed in a course for which only a grade of P or F is allowed
I	Incomplete
X	Absence from final examination
Y	For the first half of a two-semester course in which the grade for the second semester is the grade for the entire course
W	Approved withdrawal after "drop" deadline
UW	Withdrawal from a course without official notification to Registrar

Pass/Fail grades are recorded for all students in certain courses, e.g., physical education. Pass/Fail grades for individual students are subject to regulations described below.

In the computation of grade point averages, marks for courses are awarded on the following scale:

A+ = 4.3	B+ = 3.3	C+ = 2.3	D = 1.0
A = 4.0	B = 3.0	C = 2.0	F = 0
A- = 3.7	B- = 2.7	C- = 1.7	

In order to be recommended for the degree, a student must maintain a cumulative average of 2.0 (C) for 120 or more points completed with passing grades. At the end of each term all records are examined. Normally only those students who have completed 12 points with cumulative averages of 2.0 or above are permitted to remain in college. Students whose work falls below the cumulative average of 2.0 may be permitted to continue at Barnard with probationary conditions at the discretion of the Committee on Programs and Academic Standing.

Courses in which the student receives the grade of D may not be counted toward the major requirement or the minor option. Required courses graded D that must be retaken for a higher grade to satisfy requirements for the major or minor will not receive degree credit when repeated.

GRADE REPORTS

The grade report for the Autumn term is enclosed in the student's registration packet in January. At the end of the Spring term, a cumulative grade report of all the student's work at Barnard is sent to her home address. The cumulative grade report is an unofficial transcript for which there is no charge. A student may request that her grade reports be sent to her parent(s) or guardian by filing a permission card with the Registrar. Parents who have established their daughter's status as a dependent may receive transcripts of her grades without her consent by writing to the Dean of Studies. If the student wishes additional transcripts, a charge of \$3 per copy will apply (see Transcripts, page 56).

PASS/D/FAIL OPTION

A student may elect the Pass/D/Fail option by submitting a Request for Pass/D/Fail form to the Office of the Registrar before the absolutely firm deadline published in the College Calendar. The forms are available at the Office of the Registrar about two weeks before the deadline. Under the Pass/D/Fail option the student is held responsible for fulfilling all course requirements. A passing letter grade of A, B, or C reported by the instructor is converted to P by the Office of the Registrar. A grade of D or F is not converted.

Some courses record Pass/Fail grades for all students enrolled, e.g., ENG BC 1202. Of the 120 points required for the degree, a maximum of 21 points of course work may receive a grade of Pass, whether elected or mandated (e.g., English BC 1202). The P/D/F option cannot be elected for First-Year English or any course designated to count toward the major or the minor.

No limitation is placed on the number of Pass grades that may be recorded in a single term, except those rules that apply to Dean's List, to eligibility for financial aid, and to the overall 21-point maximum.

Grades of P are not included in the grade point average. Grades of D or F, whether or not received under the Pass/D/Fail option, are computed. If the total number of points excluded from calculation in the grade point average exceeds 34, a sliding scale requiring higher qualifying averages is used to determine eligibility for general honors at graduation. (Like courses graded Pass, points credited for A. P., baccalaureates, some transfer work, and all summer courses are not calculated in the grade point average.)

The request for a course to be graded under the Pass/D/Fail option is irreversible. Subsequent change to a letter grade will not be allowed, and the option may not be elected retroactively.

INCOMPLETES

A student may for compelling reasons request from her instructor an Incomplete by means of written approval on forms available at the Office of the Registrar. The deadline for filing the Application for Incomplete is the last day of the reading period. However, in a course without a final examination, the deadline is the day before the final paper is due if that date precedes the last day of the reading period.

There are two Incomplete options. The "Early Incomplete" option requires submission of unfinished work to the Registrar soon after the end of the term by the date designated in the College Calendar and results in the removal of the "I" notation from the transcript. The second option extends the deadline to the first day of classes for the next Autumn term, but the "I" notation remains on the permanent transcript and is joined by the final letter grade. The full regulations that apply to Incompletes are listed on the Application for Incomplete form available at the Office of the Registrar. A student must have the permission of her instructor to qualify for an Incomplete, and she is required to use the form, which is a written guarantee of the terms set forth in it by the instructor.

ELIGIBILITY FOR STUDENT GOVERNMENT OFFICES

To be a candidate for election to a student government office, a student must be in good academic standing and free of disciplinary action for at least one year.

GRADING AND ACADEMIC HONORS

ELIGIBILITY FOR INTERCOLLEGIATE ATHLETICS

Any student at Barnard College, Columbia College, or the Columbia School of Engineering and Applied Science who is pursuing the undergraduate program or a combined program toward a first degree is eligible for intercollegiate athletics, provided that certain conditions are met. To be eligible for athletic activities, a student must

- be a candidate for a bachelor's degree;
- be registered for at least 12 points of credit per semester;
- be in satisfactory academic standing;
- have passed by the beginning of the academic year 24 points if in the second year, 52 points if in the third year, or 86 points if in the fourth year;
- have attended the University for not more than eight terms;
- not have completed the requirements for a bachelor's degree.

An eligibility form must be filed with the Director of Athletics. The completed form is sent to the Office of the Registrar, where eligibility is determined by examining the student's record. Questions about eligibility should be referred to the Dean of Studies.

DEAN'S LIST

The Dean's List, which includes the names of students who deserve special mention for scholarship, is compiled at the end of each academic year. To be eligible, a student must be enrolled at Barnard for both terms and complete at least 12 letter-graded points each term with a minimum grade point average of 3.4 for the academic year. (P-graded points are excluded.) Her grade point average will be based on all her letter grades in the A to F range.

TRANSCRIPTS

Transcripts are ordered by the student or alumna by written request to the transcript assistant in the Office of the Registrar. An official Transcript Request Form is available, but the request may also be made by letter, provided that the letter includes the following: student's name (including maiden and married names) and Social Security number, dates of attendance at Barnard, purpose of the transcript, number of copies desired, specifications as to whether the transcript should or should not be delayed until the latest semester's grades have been entered, name(s) and address(es) to which the transcript is to be sent, the student's full signature, and a \$3 check or money order for each transcript ordered. Official copies of transcripts (those bearing the seal of the College) can be sent only to academic institutions, business organizations, and government offices. Unofficial copies of transcripts may be sent to the student. All copies of transcripts, official and unofficial, are sent only at the written request of the student, and are subject to the \$3 fee. There is no charge, however, for a transcript sent to a division of the University. Barnard will not send copies of transcripts from other schools; they must be requested directly from the institutions attended.

HONORS

The Faculty awards honors to students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*), and with highest distinction (*summa cum laude*). Students whose records include study at other institutions will be eligible for honors if both the overall and the Barnard grade point averages meet the designated requirements. Grades for summer work prior to 1997 are excluded from the grade point average. Subsequent summer work is included. If the total number of points for

summer credit, for courses graded P or P*, and for transfer grades that do not have Barnard equivalents exceeds 34 of the 120 points for the degree, the qualifying averages are computed on a sliding scale. Departmental honors are awarded to a small percentage of eligible graduates nominated by their departments for distinguished work in their major fields.

PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Junior election will require a minimum of 86 completed points, and senior election, 102. Students do not apply for membership; they are elected by Barnard faculty members who are themselves members of Phi Beta Kappa.

COURSES OF INSTRUCTION

THE CURRICULUM

The Barnard curriculum consists of 37 departments and programs. At present, 24 departments and 13 interdisciplinary programs offer majors, and students may also elect minors if they wish. All academic programs listed are planned for 1997-99; their listing in this catalogue is not a guarantee of their availability, and the College may revise its degree requirements from time to time.

CLASSES

The usual schedule consists of 15 points each semester, but depending on a student's interests or departmental requirements, additional courses may be added. However, an additional fee is charged per point for a filed program exceeding 18 points even if some of the points are subsequently dropped (see page 23 for the fee schedule). Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into smaller groups for conference and discussion. Laboratory work in the sciences is conducted with modern equipment, and computer facilities are available at Barnard.

COURSES OF INSTRUCTION

Course descriptions will be found in the following pages. Room assignments and all other registration information are published in a separate bulletin and distributed during registration.

Autumn term courses are followed by an x; Spring term courses are followed by a y.

Indivisible **Barnard** courses that run throughout the year are marked with a hyphen between the numerals (e.g., Spanish V1101-V1102). No credit is given for work in an indivisible course dropped at mid-year without the written consent of the instructor and department chair and the approval of the Committee on Programs and Academic Standing. The first semester of elementary language, whether taken at Barnard or elsewhere, normally does not receive degree credit unless the second semester is completed. However, a single exception to this rule is allowed on written request to the Registrar.

Divisible Barnard courses, which run throughout the year, are marked with a comma between the numerals (e.g., Environmental Science BC 1001x, BC 1002y). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only with written permission of the instructor. Certain courses are offered in both Autumn and Spring terms (Economics BC 1001x, BC 1001y) and may be taken in either term.

The following alphabetical prefixes designate the division of the university for whose students the course is primarily offered or indicate joint courses. The aforementioned guidelines regarding hyphens and commas between course numbers for BC courses do not necessarily apply to courses offered by other faculties.

- BC – Barnard College
- C – Columbia College
- F – School of General Studies
- G – Graduate School of Arts and Sciences
- H – Reid Hall, Paris
- R – School of the Arts
- V – Joint undergraduate course (Barnard with Columbia College and/or the School of General Studies)
- W – Other inter-faculty course

The level of the course is generally as follows:

- 1000-3999 Undergraduate
- 4000-4999 Advanced undergraduate and first-year graduate
- 5000-8999 Graduate, normally not open to undergraduates

This program is supervised by the Committee on American Studies:

- Professor of History:** Rosalind Rosenberg (Director)
- Professor of Anthropology:** Nan Rothschild
- Professor of Art History:** Barbara Novak
- Associate Professor of English:** William Sharpe
- Assistant Professor of History:** Kathryn Johnson
- Professor of History:** Robert A. McCaughey
- Associate Professor of Political Science:** Michael Delli Carpini
- Professor of Religion:** Randall Balmer
- Assistant Professor of Religion:** Judith Weisenfeld
- Professor of Sociology:** Jonathan Rieder
- Professor of Spanish:** Alfred Mac Adam
- Assistant Professor of Spanish:** Licia Fiol-Matta

The American Studies Program offers an interdisciplinary major for students who want to study the society and culture(s) of the United States by focusing on a central subject, theme, or set of questions.

THEMES

In consultation with the program director, each student chooses an adviser from among several departments and works closely with the program director and her adviser to define a thematic concentration within the major. For example, a student might define her concentration as:

- Gender and American Culture*
- The Asian-American Experience*
- The African-American Experience*
- Latino Studies*
- Culture and Politics*
- 19th-Century American History and Literature*
- Community in American Society*

Required courses in American history and literature, as well as the junior colloquium and senior seminar, offer a solid foundation for interdisciplinary study.

Prospective majors must see the program director for more information about structuring concentrations and for help in selecting an adviser. The program director can provide examples of possible programs and access to a file of syllabi from American Studies courses in other departments. Both Barnard and Columbia College courses will satisfy major requirements.

REQUIREMENTS FOR THE MAJOR

The American Studies major requires a minimum of 12 courses:

1. Two-semester sequence *American History Survey*, HIS BC 1051 and 1052. ASH 3002y can substitute for HIS BC 1051. Majors are urged to complete this requirement by the sophomore year. This requirement may be waived for those with scores of 4 (waives one semester) or 5 (waives both semesters) on the Advanced Placement Exam. Those students should substitute upper-level American history courses.
2. One semester of the *American Literature* sequence (ENG BC 3179, 3180, 3181, 3182).
3. Junior Colloquium: *Approaches to American Cultural History*, AMS BC 3401 (offered only in Autumn term).
4. *Senior Seminar* (AMS BC 3703 and 3704). In some cases, a senior seminar sequence in

AMERICAN STUDIES

one of the departments may be substituted for AMS BC 3703 and 3704.

5. A set of at least six courses organized around a theme or subject. One of the six courses must be a seminar or colloquium. The program director and adviser must approve both the theme and the set of courses the student selects for the concentration.

No minor is offered in American Studies.

COURSES OF INSTRUCTION

AMERICAN STUDIES

ASH 3002y

Approaches to American Culture: 1607-1865

An interdisciplinary consideration of early American culture, combining the traditional approaches of literary, historical, environmental, and material-culture studies with the intertextual thrust of the *new* American Studies. Draws extensively upon resources available electronically and locally throughout New York City. —L. Gordis, R. McCaughey

4 points.

III H

ASH BC 3401x

Colloquium in American Studies

Colloquium on methodologies of American Studies. With the participation of American Studies faculty from several departments, students will learn about different sources and methods that can be used to study a given subject. Topics will vary. —K. Johnson

4 points.

AMS BC 3703x, 3704y

Senior Seminar

Individual research on topic related to major thematic concentration and preparation of senior thesis.—Staff

Enrollment limited to senior majors.

4 points.

AMS BC 3999x, AMS BC 3999y

Independent Research

—Staff

3 or 4 points.

AMERICAN STUDIES COURSES IN OTHER DEPARTMENTS

Students should consult appropriate department listings for complete information about these courses:

Anthropology

- V 1002 Interpretation of Culture
V 1007 The Origins of Human Society
V 3011 Living in Society: Social Relations
V 3038 Ethnicity and Race
V 3041 Theories of Culture: Past and Present

V 3070 The Study of Cities: An Archaeological Perspective

V 3290 The Asian-American Experience

BC 3412 Male and Female: Cultural Construction of Gender

BC 3868 Ethnographic Field Research in New York City

W 4150 Ethnology of Native Americans

W 4230 Food and Society

W 4254 Archaeology of the American Southwest

Art History

C 3643 The American City: A History of Urban Form and City Planning

Asian and Middle Eastern Cultures

AAS V 3290 The Asian-American Experience

HIJ W 3600 World War II in American and Japanese History

HIS BC 3443 Images of China and America

HIS W 3950 World War II History Seminar

Dance

BC 1247 Jazz Dance I

BC 2248 Jazz Dance II

BC 3249 Advanced Jazz
(all three required for credit)

BC 3574 Contemporary Choreographers and Their Works

V 3577 Performing the Political: Embodying Change in 20th-Century American Performance

Economics

BC 2010 Sex, Discrimination, and the Division of Labor

BC 2013 Economic History of the United States

BC 2014 Topics in Economic History

BC 3065 Seminar in Business Organization

English

BC 3140x

Sec. 1 Writers of the Anglophone Caribbean

BC 3140y

Sec. 1 Explorations of Black Literature: 1760-1890

BC 3144 Minority Women Writers in the United States

BC 3180 American Literature: 1800-1870

BC 3181 American Literature: 1871-1945

BC 3182 American Fiction

- BC 3185 Modern British and American Poetry
 BC 3997 Senior Seminar
 (with instructor's permission)
 Sec. 3 The City in Literature: London and
 New York
 Sec. 4 The Family in Late 19th- and Early
 20th-Century American Fiction
 BC 3998 Senior Seminar
 (with instructor's permission)
 Sec. 5 Representation of Black Womanhood
 W 4621 African-American Texts: The Harlem
 Renaissance and Beyond

History

- BC 1051, 1052 Survey of American Civilization
 BC 3052 The Constitution in Historical
 Perspective
 BC 3057 War in 20th-Century America
 BC 3067 America Since 1945
 BC 3082 American Women in the 20th Century
 BC 3084 American Intellectual History
 BC 3449 History of Diversity in America
 BC 3452 Origins of the Constitution
 BC 3459 Education in American History
 BC 3462 Progressive Women, 1890-1920
 BC 3464 Higher Learning in America
 BC 3487 Approached by Sea

Music

- V 2016 Jazz
 V 3379 Twentieth-Century Music
 V 3380 Music since 1945
 V 3470 Issues in Rock Music and Rock Culture

Pan-African Studies

- BC 3003 Introduction to African-American
 History and Culture
 BC 3003 Introduction to African-American
 Civilizations
 V 3900x Blacks and Jews: A Sociological
 Perspective

Philosophy

- BC 3147 Philosophical Issues of Feminist Theory
 BC 3230 17th-Century Philosophy
 BC 3250 18th-Century Philosophy
 BC 3720 Ethics and Medicine
 BC 3758 Philosophy of Education

Political Science

- BC 3001 Dynamics of American Politics
 V 3313 American Urban Politics
 V 3320 Contemporary Black Politics
 BC 3326 Colloquium on Civil Rights and Liberties
 BC 3327 Colloquium on the Content of
 American Politics

- BC 3331 Colloquium on American Political
 Decision Making
 BC 3333 Colloquium on Policy Analysis
 BC 3335y Mass Media and American Democracy
 BC 3683y Colloquium on the Politics of Family
 W 4311 American Parties and Elections
 W 4316 The American Presidency

Religion

- V 3502-
 3503 Religion and American Culture
 V 3755x African-American Religion
 V 3803x Religious Worlds of New York
 V 3804y
 Sec. 37 Black Women's Religious Experiences
 W 4550 Religion and Region in North America

Sociology

- BC 1003 Introduction to Sociology
 V 3200 Gender, Class, and Race
 V 3215 American Society and Politics
 V 3216 Organizations in Modern Society
 V 3228 Sociology of Medicine
 BC 3250 Sociology of Jewish Life in America
 V 3247 The Immigrant Experience:
 Old and New
 V 3310 Gender and Deviance
 V 3320 Social Problems
 V 3920 Science and Society

Spanish

- BC 3004
 Sec. 3. Hispanics in the United States
 SPW 3004 Reading for Difference: Lesbian and
 Gay Themes in Hispanic Literature
 and Film
 BC 3120 Twentieth-Century Puerto Rican
 Literature
 BC 3203 Women Poets of the Americas:
 Kindred Voices (in English)
 BC 3204 Latina Literature

Women's Studies

- V 1001 Women and Men: Power, Politics,
 Poetry
 BC 3111, Major Texts of the Feminist Tradition,
 3113 I and II
 BC 3117 Women and Film
 BC 3120 The Invisible Woman in Literature:
 The Lesbian Literary Tradition
 BC 3130 Discourses of Desire: Introduction to
 Gay and Lesbian Studies
 BC 3144 Minority Women Writers in the
 United States
 V 3502 Women and Science
 BC 3508 Asian-American Women's Literature
 BC 3683 The Politics of Family

This program is supervised by the Committee on Ancient Studies:

Professor of Classics: Helene Foley, Lydia Lenaghan (Representatives for Barnard)

Assistant Professor of Classics (Columbia): Gareth Williams (Representative for Columbia)

Associate Professor of History (Columbia): Richard Billows

Ancient Studies is designed to allow the student to explore various aspects of the ancient Mediterranean and Mesopotamian cultures while concentrating on one of these major civilizations. By studying these cultures in several academic disciplines the student will acquire a general knowledge and a context for her area of specialization. At Barnard and in the University a very large number of courses pertaining to antiquity are offered each year, and the program prepares an annual list to aid students in making their selections. This list may be obtained from the Representative for Barnard.

REQUIREMENTS FOR THE MAJOR

Each student, after consultation with the Representative for Barnard, chooses an adviser whose field is closely related to her own and with whom she will do her senior reading. The programs of all the students are reviewed by the Ancient Studies Committee, in order to maintain control and a sense of collective enterprise.

A total of 36 points are required in the major, including at least four courses in one geographical area or period; courses in at least three departments (to ensure proper interdisciplinary training and experience); the elementary sequence of a relevant ancient language; the appropriate history course; and at least the first semester of *Ancient Studies* V 3998, V 3999.

In some cases, a senior seminar in one of the departments may be substituted for *Ancient Studies* V 3998, V 3999. Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, one second-year sequence must be offered for a student to gain credit for the first year.

No minor is offered in Ancient Studies.

COURSES OF INSTRUCTION

ANC V 3997x, ANC V 3997y

Directed Readings in Ancient Studies

A program of readings in some aspect of Ancient Studies, supervised by an appropriate faculty member chosen from the departments offering Ancient Studies courses. Testing by a series of essays, one long paper, or oral or written examination(s). —Staff

Permission of the departmental representative required.
3 points.

ANC V 3998x, ANC V 3999y

Directed Research in Ancient Studies

A program of research in Ancient Studies. Research paper required. For 3999y, the topic must be submitted to the departmental representative and the appropriate adviser decided upon

by November 15 of the semester preceding that in which the student will be enrolled in the course. For 3998x, the corresponding deadline will be April 1 of the semester preceding that in which the student will be enrolled in the course. The student and the departmental representative will request supervision of the research paper from an appropriate faculty member in a department offering Ancient Studies courses. —Staff
Permission of the departmental representative required.
3 points.

A list of other relevant courses of instruction in Classics, History, Art History, Architecture, Philosophy, Religion, and Ancient Languages offered in 1997-99 may be obtained from the Representative for Barnard.

ANTHROPOLOGY

411 Milbank Hall

854-4315, 5417

Professors: Abraham Rosman, Nan Rothschild (Chair), Paula G. Rubel, Judith Shapiro (President)

Assistant Professors: Marco Jacquemet, Lesley Sharp, Maxine Weisgrau

Mellon Post-doctoral Fellow in the Humanities: Margaret J. McLagen

Other officers of the University offering courses listed below:

Professors: Alexander Alland, Myron Cohen, Nicholas Dirks, Ralph Holloway, Don J. Melnick, Sherry Ortner, Michael Taussig, Elliott P. Skinner

Associate Professors: Elaine Combs-Schilling, Terence D'Altroy

Assistant Professors: Rani Alexander, Marina Cords, David Koester, Rosalind Morris, Linda Green

Anthropology is the study of the biological and cultural development of the human species and of the variety of human societies and their cultures. The student majoring in this field will acquire an understanding of humans and their ways that is not bound by her own time and culture. In doing so, she will find herself drawing upon the literature of such diverse disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. Students with a degree in anthropology may undertake graduate and professional study in anthropology; they may also enter upon careers in other fields, such as development, education, government, journalism, labor organization, law, medicine, or social work administration, where the value of a training in anthropology is becoming increasingly recognized. The practical and applied dimensions of anthropology have increased significantly in recent years, and the profession attempts to serve many non-academic needs both in American society and in international organizations.

Several major museums and libraries in New York City offer exceptional opportunities for research. Various summer schools provide opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology are encouraged, whenever possible, to conduct research in the New York area, or, during their summer vacations, in other localities.

All courses, except those limited to majors, satisfy the College's distribution requirements. Courses listed as W 4000 are open to majors, non-majors, and interested graduate students.

The department also cooperates with related programs such as American Studies, Foreign Area Studies, Pan-African Studies, Urban Studies, and Women's Studies, and with other departments offering, as an option to their majors, a four-course cluster in Anthropology. Arrangements for combined, double, joint, and special majors are made in consultation with the chair.

REQUIREMENTS FOR THE MAJOR

Every major is urged to acquire a general knowledge of three of the four fields of anthropology (cultural and physical anthropology, archaeology, and anthropological linguistics) and of their interrelationship. To this end, the student's program should be designed in consultation with her adviser, and as soon as possible after the declaration of the major. Continuing and frequent meetings with the adviser are encouraged.

Ten courses are required for the major, including:

ANT V 1002 *The Interpretation of Culture*
and two of the following:

ANT V 1007 *The Origins of Human Society*

ANT V 1008 *The Rise of Civilization*

ANT V 1009 *Introduction to Language and Culture*

ANT V 1010 *The Human Species: Its Place in Nature*

plus:

ANT V 3011 *Living in Society: Social Relations*

ANT V 3041 *Theories of Culture: Past and Present*
and

BC 3871x-BC 3872y *Problems in Anthropological Research*
plus at least three other courses of the student's own choosing.

In consultation with advisers, programs will be designed so as to reflect the students' interests and plans—whether they intend to go on to graduate studies in anthropology, or expect to enter other fields.

It is strongly recommended that students who plan to major in socio-cultural anthropology take BC 3868y (*Ethnographic Field Research in New York City*) **before their senior year**. Many seniors choose to incorporate a fieldwork component in their thesis research, and having some experience of field methods is extremely important. Those interested in other subdisciplines may wish to take this or another “methods” course and should consult their advisers.

Senior Essay

All students majoring in Anthropology are required to submit an “Essay” of substantial length and scholarly depth. Such a paper will usually be written during the course of the Senior Seminar or, under special circumstances and with department approval, in one or two semesters of BC 3999x, y *Individual Projects*.

Double Majors

Students doing a double major in Anthropology and another subject are required to register for a least one semester of BC 3871-BC 3872.

REQUIREMENTS FOR THE MINOR

The minor consists of five courses: ANT V 1002; one of the following: V 1007, V 1008, V 1009, or V 1010; plus three other Anthropology courses selected in consultation with the chair.

Pre-law and premedical students who wish to minor in anthropology should seek the advice and approval of the department chair.

COURSES OF INSTRUCTION

GENERAL COURSES

ANT V 1002x,y

The Interpretation of Culture

The anthropological approach to the study of culture and human society. Using case studies from ethnography, the course explores the universality of cultural categories (social organization, economy, law, belief system, art, etc.) and the range of variation among human societies.
3 points. I S

ANT V 1007x

The Origins of Human Society

An archeological perspective on the earliest forms of human culture in the prehistoric past. Topics include: hominids sharing food; people living in a variety of environments whose economies range from foraging to early agriculture; and the origins of sedentism and social complexity. —N. Rothschild
3 points. I S

ANT V 1008y

The Rise of Civilization

The rise of major civilizations in prehistory and protohistory throughout the world, from the initial appearance of sedentism, agriculture, and social stratification through the emergence of the archaic empires. Description and analysis of a range of regions that were centers of significant cultural development: Mesopotamia, Egypt, the Indus River Valley, China, North America, Mesoamerica, and Andean South America. —T. D’Altroy
3 points. I S

ANT V 1009x

Introduction to Language and Culture

An introduction to the study of the production, interpretation, and reproduction of social meanings as expressed through language. In exploring language in relation to culture and society, the focus is on how communication informs and transforms the sociocultural environment. —M. Jacquemet
3 points. I S

ANT V 1010x
The Human Species: Its Place in Nature
Designed to acquaint students with a variety of scientific disciplines through the investigation of human evolution—specifically, Darwin’s theory of evolution; Mendel’s principles of inheritance; major patterns of organic evolution; primate behavior, ecology, and evolution; and the fossil remains and trends in human evolution. —Instructor TBA.
3 points. S

ANT V 1011y
Behavioral Biology of the Living Primates
Study of non-human primate behavior from the perspective of phylogeny, adaptation, physiology and anatomy, and life history. Focuses on the four main problems primates face: finding appropriate food, avoiding being eaten themselves, reproducing in the face of competition, and dealing with social partners. —Instructor TBA.
Prerequisite: V 1010.
3 points. S

ANT V 1015y
Multiculturalism: Ways of Looking at Other Cultures
An anthropologic exploration of cultural differences and multiculturalism. Material will be drawn from cultural texts and ethnographies. —A. Rosman
3 points. I S

Linguistics LIN V 1101x, y
Introduction to Linguistics
See Linguistics listing.

TOPICAL COURSES

ANT V 3001x
Sources of African Tradition
—E. Skinner
3 points. II S

ANT V 3003y
African Cultures in the New World
—E. Skinner
3 points. II S

ANT V 3005y
Societies and Cultures of Africa
—L. Sharp
3 points. II S

ANT V 3009y
Peoples and Cultures of North Africa and the Middle East
Addresses diversity and commonality in the construction of political authority, gender, and justice in the Islamic world, focusing particularly

on the cases of Egypt and Morocco. Using Foucault, analyzes how power makes itself convincing and where some of power’s frailty lies. Includes discussions of political authority and gender in early Islam, the global economy and polity of the 1100s–1300s, orientalism, colonialism, and post-colonial hybrids of the late 20th century. —Instructor TBA.
3 points. II S

ANT V 3011x
Living in Society: Social Relations
Institutions of social life. Kinship and locality in the structuring of society. Monographs dealing with both literate and non-literate societies will be discussed in the context of anthropological fieldwork methods. —A. Rosman
Prerequisite: An introductory anthropology course.
3 points. I S

ANT V 3014x
Societies and Cultures of East Asia
Introduction to the contemporary societies of China, Japan, and Korea, with special reference to the process of social change; emphasis on the interconnections between local communities and the total national societies. —M. Cohen
3 points. II S

ANT V 3015y
Chinese Society and Culture
Social organization and social change in China from late imperial times to the present. Major topics include family, kinship, community, stratification, and the relationships between the state and local society. —M. Cohen
3 points. II S

ANT V 3017x
Caribbean Societies in the Global System
From Columbus to Castro, the societies of the Caribbean as they have been influenced by powerful sociocultural forces emanating from the global arena. Characteristics of these societies are analyzed from the perspective of theories of pluralism, dependency, and globalism. —E. Skinner
3 points. III S

ANT V 3021x
Sex Roles in Cross-Cultural Perspective
3 points. I S

ANT V 3024y
Africa and Modernity: A Changing Continent
Major forces at work in contemporary Africa and examination of changes that are taking place in the economic, social, political, educational, and

ANTHROPOLOGY

artistic institutions of the emerging nation-states of that continent. —E. Skinner
3 points. II S

ANT V 3031x
Scientific Reasoning and Archaeology

An introduction to scientific methods, and to the application of scientific reasoning within the study of archaeology. The emergence of scientific epistemologies since the Renaissance is considered, and the development of modern archaeology as a natural science and as a social science is treated in detail.
3 points. S

ANT V 3035y
Popular Religion in Chinese Society

Chinese popular religion and ritual during the late traditional period and under the impact of political and social change during modern times. Popular beliefs and practices concerning the cosmos, the gods, and the ancestors; the role in popular religion of the institutions of Buddhism, Taoism, and the Imperial State Cult; popular religion, social change, and the modern assault on “superstition.” —M. Cohen
3 points. II S

ANT V 3036x
Peasant Societies

Introduction to pre-industrial agrarian social systems; patterns of community organization and the relationship between the community and the state.
3 points. I S

ANT V 3038y
Ethnicity and Race

Analysis and comparison of ethnic and race relations on the context of social change and historical transformation with particular reference to the United States, Europe, Africa, and Asia. —TBA.
3 points. I S

Anthropology-Women’s Studies ANW V 3039y
Women in Third World Development

Comparison of women’s social and economic roles in both traditional and modernizing societies. Women’s roles in the family, community, and class structure will be discussed through a detailed examination of a series of ethnographies. *Prerequisite: An introductory Anthropology or Women’s Studies course, or permission of the instructor.*
3 points. I S

ANT V 3041y
Theories of Culture: Past and Present

Intellectual currents contributing to the development of anthropology as a discipline. Theoretical

writings of the anthropological ancestors as well as those of current practitioners will be considered. —M. Jacquemet, L. Sharp
3 points. I S

ANT V 3055x
Strategy of Archaeology

Strategies archaeologists use to reconstruct and explain the past. Topics include dating, subsistence and settlement analysis, and the archaeology of modern societies. —R. Alexander
3 points. I S

ANT V 3068y
Myths, Sagas, and Cultures of the Far North

Primarily an introduction to Old Norse literature and culture through the reading of the ancient poetry and sagas of Iceland and interpretation of the myths, legends, and stories they contain. Looks at folklore from Finland and circumpolar Siberia and its role in the development of national and ethnic consciousness in these regions. —D. Koester
3 points. III S

ANT V 3070y
**The Study of Cities:
An Archaeological Perspective**

A consideration of cities from several points of view: a developmental and comparative perspective, looking at urban origins. Focus on New York City from its inception to the present, examining its spatially defined subunits (“neighborhoods”), structured by class and ethnicity. —N. Rothschild
3 points. I S

ANT V 3117y
Latin America: Peoples, Cultures, Issues

An introduction to distinctive ways of life in Latin America, with attention given to such areas as work, religion, gender, and kinship, and some major social, economic, and political issues that have shaped past and current events. Organized in terms of historical junctures that define contemporary cultural themes—e.g., conquest, colonialism, and revolt. Features perspectives from social sciences and humanities, readings by Latin American authors, and films on colonial encounters and post-colonial dilemmas. —R. Lancaster
4 points. III S

ANT BC 3142x, y
Colloquium: Current Anthropological Theory

Intensive analysis of selected theoretical approaches and issues in anthropology.
Enrollment limited to 16 students. I S

x: Male and Female: Cultural Constructions of Gender

An examination of male and female perspectives as they affect analysis of social structure, symbolism, and political authority.
4 points. I S

y: Interpretation and Explanation in Anthropology

An examination of the different understandings, interpretations, and explanations which have been offered in anthropological theory and research over the past decade.
4 points. I S

**ANT V 3160x
The Body and Society**

An introduction to medical anthropology, whose purpose is to explore health, affliction, and healing cross-culturally. Theory and methods from other fields will be drawn on to address critiques of biomedical, epidemiological, and other models of disease; the roles of healers in different societies; and different conceptions of the body and health. —L. Sharp
3 points. I S

**ANT W 3201y
Introductory Survey of Biological Anthropology**

The human species in biological and evolutionary perspective, with particular emphasis on the behavioral and morphological aspects of human evolution. Topics include evolutionary theory and basic population genetics, non-human primate behavior, the fossil evidence for human evolution, human variation, and the interaction of biology and culture. —R. Holloway
Prerequisite: V 3201 or permission of the instructor.
4 points. S

**ANT W 3204x
Dynamics of Human Evolution**

Seminar focusing on recent advances in the study of human evolution. Topics include recent fossil discoveries, changing views of human evolution, early hominid social behavior, evolutionary theory, and sociobiology. —R. Holloway
Prerequisite: V 3201 or permission of the instructor.
4 points. S

**ANT V 3250x
Aztecs, Mayas, and the Mesoamerican Past**

Traces the cultural history of ancient civilizations in Mexico and Central America from their origins to the Spanish conquest. —R. Alexander
3 points. III S

**ANT V 3280y
Black Nationalism and the Race/Culture Dialogue in the U.S.**

3 points. I S

**ANT V 3320y
Culture, Tourism, and Development**

An introduction to anthropological models to analyze cultural processes and economic relationships of international tourism. Examines policy and practices of tourism as sustainable development strategy from the perspective of international and state class formation, gender, the environment, indigenous peoples, and cultural resource management in developing countries.
—M. Weisgrau
3 points. I S

**ANT V 3400x
Patterns of Human Mobility**

An examination of different types and causes of human mobility and its sociocultural consequence: the constitution and crossing of group boundaries, the making and breaking of kin and non-kin ties, the production and reproduction of systems of dependence and exploitation. —M. Jacquemet
3 points. I S

**ANT V 3405x
History and Time in Anthropology**

Introduces various topics important in understanding areas of the relationship between anthropology as a discipline and history as both a form of scholarly inquiry and a mode of thought and experience. Divided into six segments, each of which presents a different perspective on anthropology and the way in which it integrates or ignores a historical perspective. —D. Koester
3 points. S

**ANT V 3460y
Gender and Ethnographic Representation**

The history of gender as a discourse in ethnographic representations. Inquires how ethnography has constituted gender as an object of inquiry and then considers to what extent it has been subject to gendered structures of desire that operate in other kinds of representation texts. —R. Morris
3 points. S

**ANT V 3700x
Colloquium: Anthropological Research Problems in Complex Societies**

Study of the local community and its relationship to regional and national societies; discussion of plural societies and minority and ethnic groups in a cross-cultural setting. Cases selected

from Africa, Latin America, Asia, Europe, and North America.
4 points. I S

ANT BC 3868y
Ethnographic Field Research in New York City
A seminar-workshop on field research in New York City. Exploration of anthropological field research methods followed by supervised individual field research on selected topics in urban settings. —M. Jacquemet, L. Sharp
Recommended for majors prior to the senior year. Open to non-majors by permission of the instructor.
4 points. III S

ANT V 3910x
Colloquium: Peasant Societies and Their Transformation
Anthropological and historical perspectives on peasant societies of France and China. The characteristics of the traditional peasant societies of both countries and their transformations in modern times. —M. Cohen/I. Woloch
4 points. I S

ANT V 3920x
Economy and Society in Prehistory
An examination of the economic organization of prehistoric and ancient societies, from the earliest hunters and gatherers to the first empires. Topics include production, consumption, exchange, and decision-making in early societies, e.g., subsistence practices, market and non-market exchange, specialized production and monetary systems, and the relationship between economic organization and political development. —O. de Montmollin
Introduction to archaeology or permission of the instructor required. Enrollment limited to 15 students.
4 points. I

ANT V 3929x
Colloquium: Legacy of Power and Violence—Central America in Anthropological Perspective
An exploration of the nature of power, violence, and domination and their expression in Central America, the role anthropology has played and plays in representing the other, and the active and passive ways the subaltern classes respond and resist oppression and repression. —L. Green
Enrollment limited.
4 points. S

ANT V 3930x
Archaeological Perspective on Cultural Evolution
4 points. I S

ANT V 3936x
Madness and Civilization: Cross-cultural Perspectives
An exploration of cross-cultural meanings associated with madness, viewing this condition primarily through the anthropologist's lens. Inquiries framed by questions: how is madness experienced, diagnosed, and treated in different cultures? What sorts of assumptions, stereotypes, and/or expectations do we bring to this class? How might we as anthropologists grapple with these difficult, intangible, and painful phenomena? —L. Sharp
Prerequisite: One course in ANT. Limited to 20 students.
4 points. I S

ANT V 3937y
Mass-Mediated Cultures
—R. Morris
4 points. S

ANT V 3938x
Colloquium: Culture and Performance
In what senses are social action and cultural representation modes of performance? How does performance define, invoke, or reform the body of the sensuous and cultural experience? Such questions are at the heart of this course, which examines the possibility and the implications of considering culture and the everyday as performance. —R. Morris
4 points. S

ANT V 3940x
Current Controversies in Primate Behavior and Ecology
—M. Cords
Enrollment limited. Prerequisite: V1010, V3201, or permission of the instructor.
4 points. S

ANT V 3942x
Anthropological Study of Ritual
The role of symbols in complex economic and political organizations in the commercial sector of London's financial district, among Hausa merchants in Nigeria, in Islamic revolutions in the Middle East. —E. Combs-Schilling
4 points. I S

ANT V 3945x
Colloquium: Colonialism and the Family in Africa
An examination of the legacy of colonialism and the effects of the global context on the changing African family. Using case studies from different regions of Africa, family life is explored in pre-colonial African societies, including changing rela-

tionships between families and political power; effects of migration and urbanization; relationship to the environment; economic roles of women and children. —E. Schildkrout
4 points. II S

ANT V 3949y
Sorcery and Magic

—M. Taussig
4 points. II S

ANT V 3955y
Colloquium: The Ethnographic Imagination

Social structure, symbolic, historical, and critical turns in anthropological writing. Exploration of the way cultural theory, representation, and exotic display developed in the ethnographic tradition from World War II to the present. —A. Ghosh
4 points. S

ANT V 3958y
Crossing Borders: An Anthropology of Transnational Migration

Explains the relationships among concepts of community, culture, and capital within national and transnational arenas. The globalization of the capitalist economy has had profound effects on worldwide labor migrations. Longstanding assumptions with regard to processes of migration, notions of ethnicity, community, and personal and national identities need to be reexamined. —L. Green
Prerequisite: Majors/concentrators or permission of the instructor.
4 points. I S

ANT V 3965y
Colloquium: 20th-Century Cultural Theory

Do I have a body, or am I my body? A range of 20th-century cultural theory revolves around such a riddle considered through readings on various topics: genetics, anatomy, sport, art, sex, work, war, sickness, and death. —R. Morris
4 points. S

ANT V 3970x
Biological Basis of Human Variation

An examination of the biological data for modern human diversity at the molecular, phenotypic, and behavioral levels, as distributed geographically. —R. Halloway
Prerequisites: ANT V 1010 and instructor's permission.
4 points. S

ANT W 2002y
Environmental and Evolutionary Biology II
Organisms to Communities

—M. Cords, D. Melnick
3 points. S

ANT W 4005x
Ethnoscapes of Mediterranean Europe

An examination of sociocultural patterns in Mediterranean Europe: the tension between local identities and globalized context, gendered spaces, site-specific communicative practices, transnational dynamics (migrations, displacements, tourism), the rise in ethnic intolerance and nationalism, and the role of sociopolitical representations in the late-modern landscape. —M. Jacquemet
Prerequisite: ANT V 1002 or permission of instructor.
3 points. III S

ANT W 4114x
The Anthropology of Religious Beliefs and Practices

"Religion" approached as a dimension of "culture"—in terms of classic and contemporary anthropological theory and ethnographic evidence. Values, cosmologies, belief systems, rituals, and religious practitioners will be compared and contrasted, and the interplay of religion and societal change will be addressed. —L. Sharp
3 points. I S

ANT W 4150x
Ethnology of Native Americans

Patterns of aboriginal culture north of Mexico. Native American history and culture change since European contact. United States administration of Native American affairs and the Native Americans today.
3 points. III S

ANT W 4187x
Ethnography of Rural South Asia

Examines theoretical assumptions and methodologies of various classic ethnographies on rural South Asia. Readings trace the representation of rural communities in social science discourse from the colonial period preoccupation with, and reification of, caste and tribal categories to contemporary ethnographic perspectives linking multiple rural identities with national and global forces. —M. Weisgrau
3 points. II S

ANT W 4230x
Food and Society

Sociocultural and symbolic aspects of foodways. Topics covered include: what, when, and with whom people eat; how and from whom food is acquired, prepared, and served; and what messages these activities convey. Particular attention will be paid to relations of gender, class, and ethnicity. —N. Rothschild
3 points. I S

ANT W 4344x

Inca Empire

—T. D'Altroy

3 points.

S

ANT W 4346y

Lab Techniques in Archaeology

Training will be offered in general archaeological methods. Data recording techniques, preparation of reports and illustrations, etc. —T. D'Altroy

3 points.

ANT W 4440y

Conflict Talk and the Legal Process

An examination of conflict talk in various communicative environments—from street corners to courtrooms to village assemblies. Late-modern cultural theory will be explored to analyze the most significant issues in legal anthropology, conflict talk, and conflict resolution (the public nature of conflict talk; the relationship between evidence, truths and legitimacy; the cultural and communicative practices involved in conflict and its management; the link between power relations and communicative performances). —M. Jacquemet

3 points.

I S

ANT W 4444x

Culture of Terror: Anthropological Perspective on Political Violence

—M. Taussig

3 points.

ANT W 4625x

Anthropology and Film

Use of film by anthropologists as a means of documentation of culturally patterned behavior and as a research tool. Films will also be analyzed as cultural texts.

3 points.

I S

ANT W 4638

Anthropology of Media

An anthropological approach to the study of media in the contemporary world. Examines production, circulation, and reception of “small” and mass media forms and representations in various social contexts. Analyzes political and cultural dimensions of media practices such as journalism and television production in small-scale and complex societies. —M. McLagan
Priority given to senior and junior Anthropology majors.

4 points.

I S

ANT W 4640x

Indigenous Peoples and the State

An exploration of the complex relationships

between indigenous peoples and the states that define and confine their lifeways. Case histories and ethnographies used to identify and analyze state policies toward indigenous peoples, and sociohistorical implications of the construction of “tribal” as local and global forms of identity.

—M. Weisgrau

3 points.

I S

AAS V 3915y

Asians in America

An exploration of the issues entailed in the construction of contemporary Asian-American identities, communities, and cultures, using frameworks developed by anthropologists. Particular attention will be paid to how Asian-American groups represent themselves and how they get placed in the complex hierarchies of American race, ethnicity, gender, and class. —M. McLagan

Priority given to senior and junior Anthropology and Asian Studies majors.

4 points.

I S

AAS V 3501y

Women in Japanese Society

Anthropological examination of women in Japanese society, situating Japanese women among world ethnographies and applying anthropological theories. Undertakes to reevaluate myths and stereotypes associated with Japanese women and reconsider such basic concepts as equality, power, and freedom. Topics include politics, work, family and marriage, sexuality, aging, feminism, and the construction of gender ideology.

3 points.

II S

AAS V 3505x

Contemporary Japanese Society

An examination of sociocultural issues in post-industrial Japan, including modernity, mass-aging, mass-education, shifting expectations of women, regionalism, the future of the family, mass media, and changing roles and national identity in an expanding global context. Special attention will be paid to the dynamic processes of cultural creation, and the effect of changes in the sociocultural landscape on individual lives.

3 points.

I S

ASN V 3910y

The Japanese Family

An exploration of Japanese family life through the analysis of films, literature, and ethnographies dealing with such issues as the evolution of the modern family, change and continuity patterns of interpersonal relationships, marriage and divorce, the role of women, social class, mass

aging, the relation of family to other social institutions and to the state, and emerging alternative family forms.
4 points.

II S

COURSES FOR MAJORS

ANT BC 3871x-3872y
Senior Seminar: Problems in
Anthropological Research

Discussion of research methods and planning and writing of a Senior Essay will accompany research on problems of interest to students, culminating in the writing of individual Senior Essays. The advisory system requires periodic consultation and discussion between the student and her adviser as well as the meeting of specific deadlines set by the department each semester. —Staff
4 points.

ANT BC 3999x, y
Individual Projects

Research projects are planned in consultation with members of the department and work is supervised by the major's adviser. —Staff
Permission of the department required.
4 points.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department chair and the major adviser. These courses are described in the *Bulletin of the Graduate School of Arts and Sciences*.

Senior Lecturer: Karen Fairbanks (*Director*)

Adjunct Assistant Professors: Frederick Biehle, Alicia Imperiale, Lauren Kogod, Yumi Kori, Paul Lewis, Mary McAuliffe, Edward Mitchell, Joeb Moore, Taeg Nishimoto, Madeline Schwartzman, David Smiley, Michael Webb

Architecture majors experience and investigate the central aspects of the field. The major provides an inclusive program offering opportunities to explore historical and contemporary relationships among physical, social, and cultural forms and environmental contexts.

There are two tracks to the architecture major: the first, while incorporating lectures, seminars, and scholarly research, is more strongly studio based and is recommended for the student who thinks she will continue to do graduate work in architecture or design; the second, while incorporating studio components, is geared toward the history and theory of architecture and is more strongly allied with the Art History department.

Students considering an Architecture major or minor should consult with the adviser before sophomore registration to develop the most appropriate sequence of studio and lecture courses. Those interested in graduate study in architecture should consult with the adviser in their junior year concerning their programs.

REQUIREMENTS FOR THE STUDIO MAJOR

The studio major in Architecture is required to complete 14 courses:

Four studio courses, to be taken one per semester (studio courses have limited enrollment and priority is given to Architecture majors, seniors, and juniors):

ARC V 3103	<i>Architectural Representation: Perception</i>
ARC V 3101	<i>Architectural Representation: Abstraction</i>
ARC V 3201, V 3202	<i>Architectural Design I and II</i>

Five lecture courses from the following list:*

ARC V	3117	<i>Perceptions of Architecture</i>
ARH C	3001	<i>Introduction to Architecture</i>
ARH V	3080	<i>Pre-Columbian Art & Architecture</i>
ARH V	3248	<i>Greek Art and Architecture</i>
ARH V	3250	<i>Roman Art and Architecture</i>
ARC A	6730	<i>American Architecture before 1876</i>
ARC A	4341	<i>American Architecture 1876-1976</i>
ARH W	3645	<i>Twentieth-Century Architecture and City Planning</i>
ARC A	4330, 4331	<i>Urban History I and II</i>
ARC W	4321	<i>John Sloane and his Contemporaries</i>
ARC W	3833	<i>Architecture 1750-1890</i>
ARC W	3180	<i>Art and Architecture of Ancient Egypt</i>
ARC F	3642	<i>Monuments of New York</i>

Two Seminars to be taken in the junior or senior year:*

ARC V	3901x, y	<i>Senior Seminar</i>
ARC V	3443	<i>Principles of Japanese Architecture</i>

Three cluster courses are required, chosen in consultation with the adviser from an area of study related to architecture, such as Anthropology, Art History, Economics, Environmental Science, Geography, History, Philosophy, Physics, Political Science, Psychology, Sociology, Theatre, Urban Studies, or Studio Art.

*Each semester there are other applicable courses scheduled at the University that can be

taken upon approval of the adviser. For the description of these courses, consult the listings of other departments.

REQUIREMENTS FOR THE HISTORY AND THEORY
OF ARCHITECTURE MAJOR

The History and Theory of Architecture major is required to complete 15 courses, plus a senior thesis.

Two studio courses, to be taken one per semester:

ARC V	3103	<i>Architectural Representation: Perception</i>
ARC V	3101	<i>Architectural Representation: Abstraction</i>

Seven lecture courses:

Three architecture lectures (see Lecture List and Note under Studio Major).

One of these must be ARC V 3117 Perceptions of Architecture.

Four Art History lectures above and beyond the prior three. Two of these must be ARH BC 1001, 1002 *Introduction to History of Art*.

Three seminars to be taken in the junior or senior year. Two should be in Architecture (see Seminar List and Note under Studio Major); one in Art History.

Three cluster courses in an area of study related to Architecture (Art History or other; see description under Studio Major).

The Architecture program is a liberal arts major, not a professional degree program. It does not qualify students for a license in Architecture.

Students who wish to continue in graduate studies in Architecture for a professional degree are also advised to take:

ARC V	3211	<i>Architectural Design III</i>
Physics V	1003	<i>General Physics</i>
Mathematics V	1100	<i>Brief Calculus</i>

Note: All studio, seminar, and upper-level courses require the permission of the instructor at the first meeting of the class.

REQUIREMENTS FOR THE MINOR

The minor in Architecture consists of five courses, including V 3101 or V 3103, three history/theory courses, and a fifth course to be chosen in consultation with the adviser.

COURSES OF INSTRUCTION

ARC V 3117y
Perceptions of Architecture
Introduction to various methods by which we look at, experience, analyze, and criticize architecture and the built environment; development of fluency with architectural concepts.
—M. McAuliffe, D. Smiley
Designed for but not limited to sophomores; enrollment beyond 20 at the discretion of the instructor.
3 points. I H

ARC V 3312y
Special Topics in Architecture
An examination of special topics in architecture and related disciplines. May be repeated for

credit, provided the topic changes.
—Instructor TBA.
3 points.
ARC V 3443x
Principles of Japanese Architecture
Introduction to principles of traditional Japanese architecture and its relationship to other aspects of Japanese culture and society. Explores connections between traditional and modern Japanese society. —Y. Kori
Enrollment limited to 15.
4 points. II H

ARCHITECTURE

ARC V 3901x, y **Senior Seminar**

Readings, individual class presentations, and written reports. —J. Moore, L. Kogod, E. Mitchell
Open to architecture majors only. Limited to 15.
3 points.

STUDIO COURSES

ARC V 3101x, y **Architectural Representation: Abstraction**

Introduction to design through analysis of abstract architectural space and form. Emphasis on the design process and principles of representation through architectural drawing and model-making. —M. Schwartzman, A. Imperiale, P. Lewis
Students work in a studio environment.
Recommended to be taken in the sophomore year.
Limited to 16 per section.
3 points.

ARC V 3103x, y **Architectural Representation: Perception**

Introduction to design through studies in perception and visualization. Emphasis on exploratory, inventive processes for the generation, development, and representation of ideas in a variety of media. —M. Schwartzman, A. Imperiale, P. Lewis
Students work in a studio environment.
Recommended to be taken in the sophomore year.
Limited to 16 per section.
3 points.

ARC V 3201x **Architectural Design I**

Workshop introduction to architectural design: fundamental explorations of space and form through design exercises requiring drawings and models. Studio work, lectures, discussions, and written analysis. —K. Fairbanks and Staff
Prerequisite: V 3101 and V 3103. Limited to majors.
4 points.

ARC V 3202y **Architectural Design II**

Workshop continuation of Course V 3201. Field trips and lectures organized in relationship to the studio exercises. —K. Fairbanks and Staff
Prerequisite: V 3201. Limited to majors.
4 points.

ARC V 3211x **Architectural Design III**

Further exploration of the design process through studio work. Programs of considerable functional, contextual, and conceptual complexity are undertaken. —J. Moore and Staff
Eligible students are requested to consult the program director before the first meeting of class. Prerequisites: V 3202 and permission of the program director.
Enrollment limited as space permits.
4 points.

ARC V 3997x, 3998y **Independent Study**

Prerequisite: permission of program director in the semester prior to that of independent study.
—K. Fairbanks and Staff
2-4 points.

Professors: Natalie B. Kampen (Women’s Studies), Keith Moxey, Barbara Novak (Helen Goodhart Altschul Professor), Jane Rosenthal

Associate Professor: Benjamin Buchloh (Chair)

Assistant Professor: Margaret Werth

Adjunct Professor: Maryan Ainsworth

Associates: Ann McCoy, Joan Snitzer

Other officers of the University offering courses listed below:

Professors: James Beck, Richard Brilliant, Joseph Connors, David Freedberg, Rosalind Krauss, Robin Middleton, Miyeko Murase, Stephen Murray, Esther Pasztory, Theodore Reff, David Rosand, Allen Staley

Associate Professors: Hilary Ballon, Barry Bergdoll, Vidya Dehejia, Janis Tomlinson

Assistant Professors: Jonathan Crary, Thomas Dale

Art History, which is devoted to the study of the visual arts, is one of the broadest of the humanistic disciplines. It is concerned not only with the nature of works of art—their form, style, and content—but also with the social, political, and cultural circumstances that shape them. The introductory-level courses aim at developing in students a lifelong understanding and appreciation of works of art. The rest of the curriculum is geared to preparing majors either for graduate study leading to careers in university teaching and museums, or for positions in the art world, galleries, publication, criticism, the visual media, art consultation, conservation, and the like. These courses also provide opportunities for correlated learning to students in other fields. The department, fortunate to be located in New York City, one of the world’s great art centers, takes full advantage of the rich resources of the city’s museums and galleries in its course of study.

REQUIREMENTS FOR THE MAJOR

The Department offers both a major in the History of Art and a major in Art History with a concentration in the Visual Arts. In each case the student chooses a faculty adviser who assists her in planning a program incorporating personal interests while meeting departmental requirements.

- Requirements for the major in the History of Art:**
- A minimum of ten Art History courses is required for the major, including:
1. Art History BC 1001, 1002 *Introduction to the History of Art* is strongly suggested as an introduction to the field unless a student has sufficient previous training. It is also recommended as a prerequisite to all upper-level courses. Each semester of BC 1001, 1002 counts as an elective toward fulfillment of the ten-course requirement, but neither this nor any other broad survey can be substituted for a course in number 2 below.
 2. At least five courses distributed among the following areas:
European: Ancient, Medieval, Renaissance, Baroque, and Modern
Non-European: Chinese, Japanese, Indian, African, Mesoamerican, or Native American.
The program must include at least one European course and at least one non-European course. No more than one course from each period or area may be counted toward the five-course requirement.
 3. Two seminars which may be drawn from any area or period and may be used to satisfy the European and non-European requirements outlined on the previous page.
 4. ARH BC 3970 *Methods and Theories of Art History*.

ART HISTORY

5. A senior essay. With the Chair's permission, seniors may elect Art History BC 3999 *Independent Research* for the senior essay, but the course may not be used to fulfill the seminar requirements. The senior essay may be an expansion of a seminar paper.

Courses in film are accepted as part of the major; studio courses are not.

Recommended: One or two studio courses should be taken by Art History students.

Students who plan to undertake graduate work should acquire a reading knowledge of at least two foreign languages in which the major contributions to the history of art have been made. Most graduate schools require a reading knowledge of French, German, or Italian. The department strongly recommends a student's taking one of these languages while at Barnard.

Requirements for the major in Art History with concentration in the Visual Arts:
Seven Art History courses, including:

- BC 1001, 1002 *Introduction to the History of Art*
- An advanced seminar in art history
- One course in 19th- or 20th-century art
- ARH BC 3031 *Imagery and Form in the Arts*
- ARH BC 3530 *Advanced Studio*.

In addition, students must take a minimum of five studio art courses including BC 3530.

A senior project is required. This may take the form of a critical essay dealing with contemporary art or a development of a body of work with an accompanying paper defining the artistic intention.

Requirements for the major in the History and Theory of Architecture:
See Architecture Program offerings.

REQUIREMENTS FOR THE MINOR

The minor in Art History consists of five lecture courses, including BC 1001, BC 1002 and three courses in the following areas of which **one** must be non-European:

European and American: Ancient, Medieval, Renaissance, Baroque, and Modern

Non-European: Chinese, Japanese, Indian, African, Mesoamerican, or Native American

COURSES OF INSTRUCTION

<p>ARH BC 1001x, 1002y Introduction to the History of Art An introduction to the art of the past with an emphasis on the variety of perspectives from which it may be studied. While mainly dedicated to the art of Western Europe, there will be serious discussion of other cultures as well, with no attempt at comprehensive coverage. Artworks from different periods will be selected for discussion in depth. Members of art history faculty and other invited speakers lecture in their fields of specialization. Autumn term: Ancient, Medieval, and Renaissance. Spring term: Baroque, Modern, and Contemporary. —K. Moxey, M. Werth, others TBA. 4 points.</p>	<p>ARH V 3080x Pre-Columbian Art and Architecture —E. Pasztory 3 points.</p>	III H
	<p>ARH V 3201y Arts of China An introduction to the arts of China—ceramics, bronzes, painting, and sculpture—from the earliest farming cultures (ca. 5000 B.C.E.) to the end of the traditional period (ca. 1750 C.E.). —Instructor TBA. 3 points.</p>	II H
<p>ARH W 4076x Arts of Sub-Saharan Africa —Z. Strother 3 points.</p>	<p>ARH V 3203y Arts of Japan A survey of Japanese art from the Neolithic through the Edo period, with emphasis on Buddhist art, scroll painting, decorative screens, and wood-block prints. —Instructor TBA. 3 points.</p>	II H

ARH V 3340y**Masterpieces of the Art of China, Korea, and Japan**

The decorative arts of ceramics, lacquers, and jades; Buddhist art, architecture, sculpture; and later painting. Museum laboratory sessions.

—D. Delbanco

3 points.

II H

ARH W 3000x**Introduction to World Archaeology I**

—Instructor TBA.

3 points.

III H

ARH W 3180y**Art and Architecture of Ancient Egypt**

—B. Curran

3 points.

II H

ARH V 3248x**Greek Art and Architecture**

Examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest. —Instructor TBA.

3 points.

III H

ARH V 3250y**Roman Art and Architecture**

Architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Roman Empire in the West. —R. Brilliant

3 points.

III H

ARH BC 3351x**Early Christian and Early Medieval Art**

The origins of Christian art before Constantine and the subsequent development of architecture, sculpture, and painting under the patronage of church and state in Western Europe from the 4th through the 11th centuries. —J. Rosenthal

3 points.

III H

ARH V 3400 x**Italian Renaissance Painting I, 15th Century**

—J. Beck

3 points.

III H

ARH W 3833y**Architecture: 1750-1890**

—R. Bergdoll

3 points.

III H

ARH W 4315x**The Making of Medieval Art, 650-900 A.D.**

—Instructor TBA.

3 points. Offered 1999.

III H

ARH BC 3352y**Art of the Later Middle Ages**

Between the 11th and 14th centuries, the political, economic, and cultural life of Europe underwent profound change. This course provides an exploration of the medieval visual arts within this dynamic framework. —S. Murray

3 points.

III H

ARH W 4313y**English Art in the 12th Century**

A study of the flowering of the arts of sculpture and painting under the patronage of court and church in England after the Norman conquest.

—J. Rosenthal

3 points. Not offered in 1997-98.

III H

ARH W 4356y**Gothic Painting in France, 1200-1350**

Origins and development of French Gothic painting from the Ingeborg Psalter through the works of Pucelle and his circle. —J. Rosenthal

3 points.

III H

ARH W 3420y**Italian Sculpture during the Renaissance**

—J. Beck

3 points. Not offered in 1997-98.

III H

ARH V 3475y**Art and Culture of the Northern Renaissance**

—K. Moxey

3 points.

III H

ARH W 4547x**French Painting and Art Criticism in the Ancien Régime, 1640s-1780s**

—Instructor TBA.

3 points.

III H

ARH W 4480y**Art in the Age of the Reformation**

The ways in which the culture and social functions of artistic production in Germany and the Netherlands were transformed as a consequence of the dissemination of the ideologies of humanism and the Reformation. —K. Moxey

3 points.

III H

ARH V 3500x**Seventeenth-Century Art in Italy, France, and Spain**

—A. Vergara

3 points.

III H

ARH W 3505y**Dutch Art and Society in the 17th Century**

An inquiry into the distinctiveness of Dutch painting in the 17th century, in the context of its polit-

cal and visual culture. Special attention is paid to the careers of Vermeer and Rembrandt, and to works in museum collections in New York. — Instructor TBA.
3 points. III H

ARH BC 3520y
Roman Baroque Art
3 points. III H

ARH V 3660x
American Painting
An investigation of the ways in which cultural context, including American self-definitions and the land itself, shaped an ideology of the natural world in American art, with correspondences in philosophy, science, and literature from its source in the Puritan ethic through transcendentalism and into the post-Darwinian period.
—'97:L. Ferber; '98: B. Novak
3 points. III H

ARH C 3001x
Introduction to Architecture
Architecture analyzed through in-depth case studies of major monuments of sacred, public, and domestic space, from the Pantheon and Hagia Sophia to Falling Water and Grand Central Station. Fulfills requirement for architectural history/theory distribution requirement, but generally open to students wanting a humanistic approach to architecture. —J. Connors
3 points. III H

ARH V 3748y
Eighteenth-Century Painting
—A. Staley
3 points. III H

ARH W 3600x
Nineteenth-Century Art
Painting and sculpture in Western Europe from 1789 to 1900; Neo-classic, Romantic, Realist, Impressionist, and Post-impressionist movements. —J. Crary
3 points. III H

ARH W 3686y
Seurat to Matisse: Art in France, 1880-1907
Developments in French art, culture, and society between 1880 and 1907. Artists studied include Manet, Monet, Degas, Cézanne, Morisot, Seurat, Van Gogh, Gauguin, Rodin, Claudel, Vuillard, Matisse, and Picasso. —M. Werth
3 points. III H

ARH W 3620y
Nineteenth-Century Visual Culture
Important developments in the making of a new visual culture in the 19th century. Major emphasis on painting and photography but also attention to urbanization, early cinema, world's fairs, fashion, and technology. —J. Crary
3 points. III H

ARH W 3650y
Twentieth-Century Art
The major trends and sources of 20th-century painting, sculpture, and architecture, with special emphasis on an understanding of the cultural environment and related developments.
—B. Buchloh, R. Krauss
3 points. III H

ARH V 3610x
Modernism and Difference
Issues such as the modern museum, the centrality of gender and sexuality, the emergence of feminist art, the boundaries between art and pornography, and the persistence of modernist primitivism, as well as the part played by individual artists—from Picasso and Pollock to Hesse and Mapplethorpe. The focus is on what kinds of "difference" canonical modernism has accommodated and how modernism's limits have been tested by marginal, oppositional, and post-modernist figures.
—M. Werth
3 points. III H

ARH BC 3674x
Art Since 1945
Introduction to the history of art in postwar Europe and the United States from 1945 to the present, emphasizing questions of methodology of modernist studies and the diversity of theoretical approaches. —B. Buchloh
3 points. III H

ARH BC 3673y
History of Photography
Introduction to the history of European and American photography: the major movements and individual figures from the 1830s to the 1980s as well as theories and models of thinking about photography and its crucial authors. —B. Buchloh
3 points. III H

ARH W 3645y
Twentieth-Century Architecture and City Planning
—Instructor TBA.
3 points. III H

ARH W 3680y**Europe: Postwar Art 1948-1968**

An exploration of historical, theoretical, and artistic problems specific to the reflection on and production of visual culture after the Holocaust and WW II in Italy, Great Britain, France, and Germany. —B. Buchloh

3 points. III H

ARH V 3895x, y**Introductory Colloquium: The Literature and Methods of Art History**

An introduction to different methodological approaches to art history as well as a variety of critical texts by such authors as Wölfflin, Riegl, Panofsky, and Gombrich. —x: J. Crary; y: J. Beck

4 points. III H

AWS BC 3123x**Women and Art**

A discussion of the methods necessary to analyze visual images of women in their historical, racial, and class contexts, and to understand the status of women as producers, patrons, and audiences of art and architecture. —N. Kampen

3 points. I H

SEMINARS

Seminars have limited enrollment. Permission of the instructor is required for admission to all Barnard and Columbia seminars. In addition, it is strongly recommended that students seeking admission to a seminar have previously had a lecture course in the area. Students must sign up for Columbia seminars at 826 Schermerhorn.

ARH C 3916x**Nineveh and Its Remains**

Intensive investigation of ancient Nineveh, one of the oldest cities in the Middle East and the capital of the Assyrian empire from 705 to 612 B.C. —Instructor TBA.

4 points. II H

ARH V 3911y**Chinese Painting of the Sung and Yuan Dynasties**

—Instructor TBA.

4 points. II H

ARH C 3910y**Art of the Han Dynasty**

Issues in the art of early imperial China. Various mediums are discussed in relation to important recent archaeological discoveries such as the tombs at Ma-wang-tui and Man-ch'eng, as well as in relation to the major funerary monuments

of the Eastern Han period. —Instructor TBA.

4 points. II H

ARH V 3912y**The Art of Landscape Painting in China**

—Instructor TBA.

4 points. II H

ARH C 3933x**Medieval Art at the Cloisters**

Most meetings at the Cloisters. Consult departmental office for location of first meeting. —D. Thomas

4 points. III H

ARH BC 3953y**The Art of Medieval Manuscript Illumination**

Study of the decoration and illustration of medieval manuscripts, including examination of original works in collections in New York City.

—J. Rosenthal

4 points. III H

ARH BC 3921y**Reading the "Reality Effect"**

—K. Moxey

4 points. III H

ARH BC 3992x**Early Netherlandish Painting at the Metropolitan Museum of Art**

Study of early Netherlandish painting (1430-1550) taking into account the strengths of the wide ranging collection at the Metropolitan Museum of Art.

—M. Ainsworth

4 points. III H

ARH C 3956y**Pieter Bruegel**

—K. Moxey

4 points. III H

ARH V 3933y**Arts in Early Medicean Florence**

—J. Beck

4 points. III H

ARH W 3973y**Graduate Seminar:****Histories and Theories of Photography**

Considers the recent development in the writing of photographic history, theory, and criticism. Beginning with a reading of the classic photographic debates of the 1920s, its main part will focus on the key texts of social art history and structural semiology. The historical accounts will engage with a variety of photographic practices from the 19th century through the photographic debates of the 1960s and 1970s. —B. Buchloh

Prerequisite: Permission of instructor.

4 points.

III H

ARH BC 3974y

Matisse

A study of the early career of Henri Matisse, with a consideration of the significance of exhibition, reception, dealers and collectors, and his social and cultural context, as well as questions of interpretations. —M. Werth

4 points.

III H

ARH BC 3965x

Bernini

A look at Bernini's designs in light of Baroque poetics, music, stagecraft, changing religious practices, and new techniques for political repression in the 17th century. Recent writing on theatricality and the role of the spectator in producing the "event" of representation will also be brought to bear on Bernini's work. —Instructor TBA.

4 points.

III H

ARH BC 3966y

Watteau

A look at Watteau's unusual choice of subject matter, his brilliant technique and colorism, his relation to the emerging practice of art criticism, and the social resonance of his works.

—Instructor TBA.

4 points.

III H

ARH BC 3963y

Caravaggio and Caravaggism in 17th-Century Painting

Focus on the strange and violent realism of Caravaggio's images, which revolutionized European painting around the turn of the 17th century. In addition to Caravaggio, we will look at the works of some of his followers, such as Artemisia Gentileschi, Jusepe Ribera, Georges de la Tour, and the Le Nain brothers. —Instructor TBA.

Prerequisite: Upper-level course in art history; designed for majors.

4 points.

III H

ARH BC 3964y

Poussin and Claude: Landscape in 17th-Century Rome

—Instructor TBA.

Preference is given to Art History majors or permission of the instructor is required.

4 points.

III H

ARH W 3940y

Piranesi and His Contemporaries

—R. Middleton

4 points.

III H

ARH C 3948x

Nineteenth-Century Criticism

—J. Crary

4 points.

III H

ARH C 3949x

Cubism

—T. Reff

4 points.

III H

ARH C 3922y

Themes in the Art and Literature of the Renaissance: Myths of Love

—D. Rosand

4 points.

III H

ARH BC 3982y

The Literature of Art

A consideration of artists' letters and journals as revelatory of key ideas in the art of representation and an inquiry into various concepts of the art historian's role. Readings include Delacroix, Van Gogh, Reynolds, Leonardo, Huizinga, Panofsky, Wölfflin, Gombrich, Kubler, Barthes. —B. Novak

Enrollment limited to 16 students. Permission of the instructor required.

4 points.

III H

ARH BC 3986y

Art Criticism

Workshop in writing criticism. Short weekly assignments on such matters as language, experience, narrative, and the object; close examination of process. Students write art criticism based on their gallery visits and refer to current and previous criticism. —B. O'Dougherty

4 points.

III H

ARH BC 3985x

Introduction to Connoisseurship

Factors involved in judging works of art, with emphasis on paintings: materials, technique, condition, attribution; identification of imitations and fakes; questions of relative quality.

—M. Ainsworth

Enrollment limited to 12 senior majors. Permission of the instructor required.

4 points.

III H

ARH BC 3970y

Methods and Theories of Art History

An introduction to critical writings that have shaped histories of art, including texts on iconography and iconology, the psychology of perception, psychoanalysis, social history, feminism and gender studies, structuralism, semiotics, and post-structuralism. —M. Werth

4 points.

III H

ARH BC 3962y**Romanticism**

Romanticism in art and aesthetics: its origins and development as well as its legacy and persistence in the 19th century. —M. Werth

4 points. III H

ARH V 3980y**Frank Lloyd Wright**

—H. Ballon

4 points. III H

ARH BC 3999x, y**Independent Research**

Independent research, primarily for the senior essay, under a chosen faculty adviser and with the chair's permission. —Staff

4 points. III H

ARH BC 3031y**Imagery and Form in the Arts**

The operation of imagery and form in dance, music, theatre, visual arts, and writing; students are expected to do original work in one of these arts. Concepts in contemporary art will be explored. —J. Snitzer

3 points. III H

M 5:00-6:00. Artsforum

Artsforum is an informal weekly meeting with professionals in the arts.

ARH W 4900x**Modern Landscape: Histories and Theories**

Study of histories and theories of landscape in art from the 18th to 20th centuries, with a focus on 19th-century Europe. —M. Werth

4 points. III H

ARH W 4418y**Italian Architecture from Michelangelo to the Baroque**

—J. Connors

4 points. III H

ARH W 4320**Death in Medieval Art**

—T. Dale

4 points. III H

STUDIO COURSES IN ART

Studio courses 2003x, 2004y, 2005x, 2006y, 2007x, 2008y are given at Barnard. Enrollment is limited and students must sign up in advance. Other studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the department chair. Classes are limited in size.

Students who wish to enter the Columbia courses are required to apply for space in 305 Dodge Hall during the preregistration period prior to each term. Model fees range from \$20 to \$45. For students other than those majoring in Art History with Visual Arts concentration, a maximum of four courses of studio work may be credited toward graduation; each of the second two must be matched with an art history course in order to be credited.

ARH BC 2003x, 2004y**Drawing in the Museum**

An intensive drawing workshop geared to all levels from beginner to advanced. Includes live drawing, color theory, and work in pastel. Drawing in the Museum will also examine the role played by the display of art and artifacts from all periods of history in the work of the Cubists and Surrealists as well as in that of such contemporary artists such as Robert Smithson, Joseph Beuys, Marcel Broodthaers, Nancy Spero, Leon Golub, and others. —A. McCoy

Class features several Native American and African guest lecturers.

2 points.

ARH BC 2005x, 2006y, 2007x, 2008y**Painting**

Basic understanding of the visual representation of space, color, and form are developed by setting specific tasks to be executed in oil painting. Class work will include drawing and painting from the model as well as still-life arrangements. Emphasis is on the painting methods and techniques used historically in Realism, Expressionism, and Abstraction. Students are encouraged to develop oral and written skills through weekly discussions and assignments that accompany the examination of visual art. No prior experience is necessary. —J. Snitzer

2 points.

ARH BC 3530x**Advanced Studio**

An interpretive study of the theoretical and critical issues in visual art. Projects that are modeled after major movements in contemporary art will be executed in the studio. Each student develops an original body of artwork and participates in group discussions of the assigned readings. —J. Snitzer
Prerequisites: Primarily for Art History/Visual Art majors. Open to others by permission of the instructor.

3 points.

STUDY ABROAD: REID HALL, PARIS

The following courses are offered at Reid Hall in Paris. For additional information, see the Reid Hall Programs Bulletin available in 303 Lewisohn Hall.

**Art History H 3320y
Medieval Art and Architecture**

Lectures and discussions on French art and architecture during the Middle Ages. Students are expected to visit and report on Saint-Denis, Cluny, Notre Dame, Chartres, Sainte-Chapelle, and other sites. Overnight excursions to LeMans, Angers, Chartres. —A. Bratu
3 points. III H

**Art History H 3430x, y
Renaissance and 17th-Century Art and Architecture**

Lectures and discussions on French architecture, painting, and sculpture from their roots in the Italian Renaissance through the 17th century. Students are expected to visit and report on the Musée Condé, Fontainebleau, Château d'Écouen, Vaux-le-Vicomte, Versailles, the Louvre, and other sites. Overnight excursion to Belgium; visits to Ghent, Bruges. —C. Sala
3 points. III H

**Art History H 3604x, y
Seminar: Contemporary French Art**
Emphasis on one particular work, artist, or school. Recent topics were *European Sources of the New York School of Painters* (Autumn) and *The Revolution of Modern Art: Cubism, Fauvism, Expressionism, Abstract Art* (Spring). —J.L. Ferrier
4 points. III H

**Art History H 3545x
French Painting and Modernity: 1740-1890**
(In English)
Artists and artistic institutions in France from Watteau to post-impressionism, with special concentration on works in French collections. Particular emphasis on the rise of the art market, new audiences and criticism, and the emergence of modern forms of subjectivity and identity. David, Gericault, Ingres, and Manet. Recent art historical approaches to this complex period. Frequent museum visits. —V. Thielemans
For students in the Art History Program.
3 points. III H

**Art History H 3682
Issues in the 19th-Century Art: Manet and Modern Paris** (In English)
Establishes a context for studying American expatriate artists in Paris, 1900-1940 (the accompanying seminar). The career of Edouard Manet and how he influenced the impressionists, who in turn welcomed American painters in the subsequent period. Visits to museums, libraries, and historical sites in Paris; readings by Zola, Baudelaire, Mallarmé, and Duranty. —S. Taylor-Leduc
3 points. III H

**Art History H 3960
Chateaux and Landscape Architecture in Paris and the Île-de-France** (In English)
Chateaux and landscape architecture in Paris and the Île-de-France. French history and culture through the study of its chateaux and gardens. Sites include Fontainebleau, Louvre-Tuileries, Versailles, and Vaux-le-Vicomte. The relationship between architecture, landscape, and city planning. The development of the public park (e.g., Buttes Chaumont) and its ramifications for 19th- and 20th-century urban planning. —S. Taylor-Leduc
Class lectures and on-site visits.
3 points. III H

**Art History H 3962
Theories of the Observer in French Art and Criticism** (In English)
Key primary texts from 18th- and 19th-century philosophy and criticism related to modes of perception and reception of works of art read in parallel with recent art historical texts addressing the ideologies and technologies of the observer. Texts by Diderot, Baudelaire, and Flaubert, and interpretations by T.J. Clark, M. Fried, T. Crow, and J. Crary. —V. Thielemans
For students in the Art History Program.
4 points. III H

ASIAN AND MIDDLE EASTERN CULTURES

321 Milbank Hall

854-2125, 5416

Associate Professors: Irene Bloom (Wm. Theodore & Fanny Brett de Bary & Class of '41 Collegiate Associate Professor in Asian Humanities, and Chair), Afsaneh Najmabadi (Women's Studies)

Assistant Professor: Rachel Fell McDermott

Mellon Post-Doctoral Fellow in the Humanities: Jun Qian

Other officers of the University offering courses listed below:

John Mitchell Mason Professor Emeritus and Special Service Professor: William Theodore de Bary

Professors: Paul Anderer, Peter J. Awn (Religion), Richard Bulliet (History), Kathleen R. F. Burrill, Pierre Cachia (Senior Scholars Program), Chou Wen-chung (Music), Dieter Christensen (Music), Myron Cohen (Anthropology), Ainslie T. Embree (Senior Scholars Program), Carol N. Gluck (History), John S. Hawley (Religion), Robert Hymes, Donald Keene, Gari K. Ledyard, Maan Madina, John Meskill (Senior Scholars Program), Dan Miron, Miyeko Murase (Art History and Archaeology), Theodore Riccardi, Barbara Ruch, George Saliba, Conrad Schirokauer (Senior Scholars Program), Haruo Shirane, Henry D. Smith, Robert A. F. Thurman (Religion), Arthur Tiedemann, David Wang, Pei-yi Wu (Senior Scholars Program), Philip B. Yampolsky, Ehsan Yarshater, Madeleine Zelin

Adjunct Professor: Morris Rossabi

Associate Professors: Frances Pritchett, Tomi Suzuki, Marc Van de Mieroop, Gauri Viswanathan (English and Comparative Literature)

Assistant Professors: Ryuichi Abe (Religion), Magda Al-Nowaihi, Hamid Dabashi, Daniel Ferguson (Music), Nili Gold, Gurinder Singh Mann (Religion), Gregory Pflugfelder, Paul Rouzer, David Sensabaugh (Art History and Archaeology), Michael Tsien

Adjunct Assistant Professor: Marsha Wagner

Senior Lecturer: Jeanette Wakin

The primary aim of Asian and Middle Eastern Cultures is to introduce major Asian civilizations and their works and values as a means of expanding knowledge of the varieties and unities of human experience. The General Courses below are designed for any student, whatever her major interests, who wishes to include knowledge of Asian life in her education.

The satisfactory completion of one of the following courses offered in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures satisfies the college requirements in the respective languages: Akkadian G 4204 *Intermediate Akkadian*; Arabic W 1215 *Intermediate Arabic*; Armenian W 1124 *Intermediate Armenian*; Bengali W 1619 *Intermediate Bengali*; Central Asian W 1110 *Intermediate Tajik*; Central Asian W 1122 *Intermediate Uzbek*; Chinese C 1202 or F 1202 *Intermediate Chinese* (second stage); Hebrew W 1513 *Intermediate Modern Hebrew*; Hindi-Urdu W 1613 *Intermediate Hindi-Urdu*; Japanese C 1202 or F 1202 *Intermediate Japanese* (second stage); Iranian W 1713 *Intermediate Modern Persian*; Korean W 1202 *Intermediate Korean*; Nepali W 1813 *Intermediate Nepali*; Panjabi W 1819 *Intermediate Panjabi*; Sanskrit W 4813 *Intermediate Sanskrit*; Tibetan W 4413 *Intermediate Tibetan*; or Turkish W 1913 *Intermediate Turkish*.

Literature courses in the departments of East Asian Languages and Cultures and Middle East and Asian Languages and Cultures in which readings are in the original languages may be used to fulfill the Barnard distribution requirements only with the permission of the Chair of Asian and Middle Eastern Cultures.

Students who wish to enter Chinese, Japanese, or Korean language courses above the introductory level *must* pass a language placement test before registering. Placement exams are given during the week *before* classes begin—contact the Department of East Asian Languages and Cultures (407 Kent) for exact dates. For placement above the introductory level in Arabic, Armenian, Bengali, Hebrew, Hindi-Urdu, Nepali, Panjabi, Persian, Sanskrit, Tibetan,

or Turkish, contact the Department of Middle East and Asian Languages and Cultures (602 Kent). All students wishing to enter the Hebrew language program or wishing exemption from the Hebrew language requirement must take a placement test. The test is administered *Monday-Friday, 10:00-3:00 during August* in 602 Kent Hall.

REQUIREMENTS FOR THE MAJOR

A student who plans to major in Asian and Middle Eastern Cultures is advised to consult a member of the department in the Spring term of her first year in order to be sure to plan for an appropriate sequence of language study.

To major in Asian and Middle Eastern Cultures, a student will choose to follow one of two tracks, East Asian or Middle East and South Asian.

The East Asian Track

The major requires a minimum of 10 courses, including:

1) Language Requirement:

Three years of Chinese, Japanese, or Korean (completion of the 4005-4006 level), or the proficiency equivalent (to be demonstrated by a placement examination).

2) Core Courses:

Asian Humanities
and V 3400 Colloquium on Major Texts

Two of the following survey courses:

Asian Civilizations-Middle East V 2001 *Introduction to Major Topics in Asian Civilizations: The Middle East and India*

Asian Civilizations-East Asia	V 2002	<i>Introduction to Major Topics in Asian Civilizations: East Asia</i>
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Asian Civilizations V 2359 *Introduction to the Civilization of China*

Asian Civilizations V 2361 *Introduction to the Civilization of Japan.*

Asian Civilizations V 2363 *Introduction to the Civilization of Korea*

3) **Disciplinary Courses:** Three courses, to be chosen in consultation with the adviser.

Because Asian studies is an area-study rather than an academic discipline, it is important that the student also develop competence in a particular discipline. She is therefore asked upon entering the major to choose from among the following: history, literature, philosophy, religion, art history, anthropology, political science, sociology, or economics.

Typically, one of the courses taken in satisfaction of the disciplinary requirement will be a basic introductory or methodology course, and the other two will be in East Asia-related courses in the discipline. Under certain circumstances the adviser may approve a combination of two basic courses and one East Asia-related course; courses in closely related disciplines may also be substituted with the approval of the adviser. However, if a student chooses one or two disciplinary courses that are not specifically Asia-related, these courses will be considered qualifying in terms of the disciplinary requirement, but not as counting toward the 10-course minimum for the major. Only those courses that are Asia-related are considered to count toward this 10-course minimum.

Majors specializing in history should take *Historiography of East Asia* (East Asian W 4103), and those specializing in literature should take *Critical Approaches to East Asian Literature* (East Asian W 4101). These two courses are offered in the Spring term and should normally be taken in the junior year.

4) **Elective Courses:** Two courses related to East Asia, to be chosen in consultation with the adviser.

5) Senior Paper: Each student is expected to prepare a research paper or an annotated English translation of an East Asian text. The paper should be in the chosen disciplinary field and will be written in consultation with an appropriate faculty adviser. The paper is prepared in two stages: first by enrolling in the Spring of the junior year in *Research in East Asian Studies* V 3999y, and then in the senior year in *Senior Seminar: China* (East Asian W 3901x or y); or *Senior Seminar: Japan* (East Asian W 3903x or y); or *Senior Seminar: Korea* (East Asian W 3905x or y). All students, except those on study leave in the Fall, should enroll for the Fall term. Under special circumstances, with the adviser's approval, the senior paper may be written in conjunction with Asian Studies BC 3999, *Independent Study*.
Note that in all East Asian language courses, the minimum grade required to advance from one level to the next is B-.

The Middle East or South Asian Track

A minimum of 13 courses is required, including:

Asian Humanities	V 3399	<i>Colloquium on Major Texts</i>
Middle East & South Asia	MDE W 3000y	<i>Theories of Culture: Middle East and South Asia</i>

Two of the following courses:

Asian Civilizations-Middle East	V 2001x	<i>Introduction to Major Topics in Asian Civilizations: The Middle East and India</i>
Asian Civilizations-Middle East	V 2003x	<i>Introduction to Islamic Civilization</i>
Asian Civilizations-Middle East	V 2008y	<i>Contemporary Islamic Civilization</i>
Asian Civilizations-Middle East	V 2357x	<i>Introduction to the Civilization of India</i>
Asian Civilizations-Middle East	W 4210	<i>Indian Civilization</i>

Four to six courses of an appropriate language (Akkadian, Arabic, Armenian, Bengali, Hebrew, Hindi-Urdu, Nepali, Panjabi, Persian, Sanskrit, Tibetan, Turkish, or Uzbek), selected in consultation with the adviser. A minimum of five courses chosen as a concentration. The concentration may be in the languages and cultures of ancient Semitic, Arabic, Armenian, Central Asian, Hebrew, Indic, Iranian, or Turkish. The courses required in each of the concentrations and other details will be explained by the department chair. They will include one advanced course or independent study leading to a senior thesis, to be written under the supervision of an appropriate faculty member, chosen in consultation with the adviser.

The courses listed under Middle East and South Asia below represent a selection among those required in one or another of the concentrations. Students should consult the Middle East and Asian Languages and Cultures department office in 609 Kent Hall for a complete list of course offerings. Also see the note on graduate courses at the end of this section.

No minor is offered in Asian and Middle Eastern Cultures.

COURSES OF INSTRUCTION

COURSES IN ASIAN CIVILIZATIONS

Asian Civilizations-Middle East AME V 2001x
Introduction to Major Topics in Asian Civilization: The Middle East and India

Interdisciplinary and topical approach to major issues and phases of Asian civilizations and their role in the contemporary world.
—M. Al-Nowaihi and G. Viswanathan
4 points. II S

Asian Civilizations-East Asian AEA V 2002x or y
Introduction to Major Topics in Asian Civilization: East Asia

An interdisciplinary and topical approach to major issues and phases of East Asian civilizations and their role in the contemporary world. —W.T. de Bary, A. Tiedemann, and Staff
4 points. II S

Asian Civilizations-Middle East AME V 2003x
Introduction to Islamic Civilization

Islamic civilization and its characteristic political, social, and religious institutions and intellectual traditions from its pre-Islamic Arabian setting to the present. —G. Saliba

3 points. II H

Asian Civilizations-Middle East AME V 2008y
Contemporary Islamic Civilization

A survey of the contemporary intellectual currents in Islamic societies, with a special emphasis on the societies of the Middle East and on the cultural issues not covered in the course in classical Islamic civilization, through focus on texts of the contemporary period. —G. Saliba

3 points. II H

Asian Civilizations-Middle East AME V 2357x
Introduction to the Civilization of India

An introduction to Indian civilization with attention to both its unity and its diversity across the Indian subcontinent. Consideration of its origins, formative development, fundamental social institutions, religious thought and practice (Vedic, Buddhist, Jain, Hindu, Muslim, and Sikh), literary and artistic achievements, and modern challenges. —R. McDermott

3 points. II H

Asian Civilizations-Middle East AEA W 4210x
Indian Civilization

3 points. Not offered in 1997-98. II S

Asian Civilizations-East Asian AME V 2359x, y
Introduction to East Asian Civilizations: China

The evolution of Chinese civilization from ancient times to the 20th century, with emphasis on characteristic institutions and traditions.

—x: M. Tsin; y: R. Thymes

3 points. II S

Asian Civilizations-East Asian AEA V 2361x, y
Introduction to East Asian Civilizations: Japan

The development of Japanese society and culture with special attention to national self-image and values as revealed in thought, institutions, and literature. —G. Pflugfelder

3 points. II H

Asian Civilizations-East Asian AEA V 2363y
Introduction to Asian Civilizations: Korea

The evolution of Korean society and culture, with special attention to Korean values as reflected in thought, literature, and the arts. —G. Ledyard

3 points. II H

Asian Civilizations ASC W 4320y
Human Rights and Social Justice in Comparative Perspective

Considers issues of human rights through cross-national and cross-cultural studies of modern South Asia (India, Pakistan, Sri Lanka) and China.

—M. Wagner and A. Waters

4 points. II S

Asian Studies-Religion ASR V3974y
Hindu Goddesses

Study of a variety of Hindu goddesses, focusing on representative figures from all parts of India and on their iconography, associated powers, and regional rituals. Materials are drawn from textual, historical, and field studies, and discussion includes several of the methodological controversies involving interpretation of goddess worship in India. —R. McDermott
Prerequisite: One course in Indian culture or religion or permission of the instructor.

4 points. II H

Asian Studies-Religion ASR W 3772y
Perspectives on Evil and Suffering in World Religions

Exploration of the problems of evil and suffering in Christianity, Judaism, Hinduism, and Confucianism, with attention to such questions as what is "evil," why it exists, how suffering fits into the religious world view, and how religious people cope with threats to their analytic capacities, powers of endurance, and moral insight. Draws on classical texts, myths, and modern fieldwork. —R. McDermott

3 points. Not offered in 1997-99. I H

Asian Studies ASN W 4001y
History, Literature, and Culture of Bengal

An introduction to the history, literature, and culture of Bengal prior to 1947. Attention is given to important figures, ideological trends, and social structures; Bengali texts in translation; and recent studies on Bengal. Lectures are supplemented by slides and films. Introduction to Indian civilization, or the equivalent, is recommended as background. —R. McDermott

3 points. II H

Asian Studies ASN V 3582x
Chinese Political Thought

Exploration of Chinese political thought through analysis of major texts and secondary works dealing with classical thought, the evolution of the Confucian value system in the imperial period, reform movements of the late 19th and 20th centuries, Chinese communism, voices of dissent in the 1980s and 1990s, contemporary human rights

issues, and the “new Confucianism.” —I. Bloom
3 points. II H

COURSES IN ASIAN HUMANITIES

Asian Humanities AHU V 3399x, y V 3400x, y Colloquium on Major Texts

Readings in translation and discussion of texts of Middle Eastern, Indian, Chinese, and Japanese origin, including (V 3399): the *Qur'an*, Islamic philosophy, Sufi poetry, the *Upanishads*, Buddhist sutras, the *Bhagavad Gita*, Indian epics and drama, Gandhi's autobiography; (V 3400): the *Analects* of Confucius, Mencius, Lao Tzu, Chuang Tzu, the *Lotus Sutra*, *Dream of the Red Chamber*, *Tale of Genji*, Zen literature, Noh plays, *bunraku* puppet plays, and Chinese and Japanese poetry. (Asian Humanities V 3399-3400 form a sequence, but either may be taken separately. V 3399 may also be taken as part of a sequence with Asian Humanities V 4310; V 3400 may also be taken as part of a sequence with Asian Humanities V 3830.) —P. Anderer, I. Bloom, W.T. de Bary, P. Cachia, M. Madina, G.S. Mann, R. McDermott, T. Suzuki, P.Y. Wu, E. Yarshater, and the Staff
4 points. II H

Asian Humanities AHU W 4028y Colloquium on Major Works of Chinese Philosophy, Religion, and Literature

Reading and discussion of major works of Chinese philosophy, religion, and literature, including important texts of Buddhist and Neo-Confucian traditions. —W.T. de Bary
Prerequisite: AHU V 3400, AME V 2359, or AEA V 2002.
4 points. I H

Asian Humanities AHU W 4029x Colloquium on Major Works of Japanese Thought

Extends the work begun in Asian Humanities V 3400 by focusing on reading and discussion of major works of Japanese philosophy, religion, and literature from earliest times to the 12th century. —W.T. de Bary
Prerequisite: AHU V 3400, ASC V 3002, ASC V 3361, or the equivalent.
4 points. *Not offered in 1997-98.* II H

Asian Humanities AHU W 4030y Colloquium on Major Works of Japanese Thought

Reading and discussion of major works of Japanese philosophy, religion, and literature from the 12th to the 18th centuries. —W.T. de Bary
Prerequisite: AHU V 3400, ASC V 3002, ASC V 3361, or the equivalent.
4 points. *Not offered in 1997-98.* II H

Asian Humanities AHU V 3830x Colloquium on Modern East Asian Texts

Exploration of the modern East Asian traditions through intensive reading of literary masterpieces by Lu Xun, Shen Congwen, Akutagawa Ryunosuke, Kawabata Yasunari, Hyon Ching-gon, Choi Inhoon, etc. Emphasis is on cultural/intellectual issues and their manifestations in literary forms. Knowledge of the original languages is not required. —D. Wang
AHU V 3400 is strongly recommended as background.
4 points. II H

Asian Humanities AHU W 3331y Colloquium on Modern South Asian Texts

Exploration of modern South Asian self-images through the work of A.K. Coomaraswami, Gandhi, Premchand, Raja Rao, Anatha Murthy, Ghalib, Faiz, etc. Emphasis is on cultural/intellectual issues and their manifestations in literary form. —F. Pritchett
Permission of the instructor required.
3 points. II H

Asian Humanities-Music AHM V 3320y Introduction to the Musics of East Asia and Southeast Asia

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —D. Ferguson
3 points. II H

Asian Humanities-Music AHM V 3321x Introduction to the Musics of India and West Asia

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —D. Christensen
3 points. *Not offered in 1997-98.* II H

Asian Humanities AHU V 3340x Masterpieces of Art in China, Japan, and Korea

Selected masterpieces of painting, sculpture, and architecture from the Han Empire in China to modern times in Japan, in relation to contemporary history, philosophy, religion, and literature. —D. Delbanco
3 points. II H

Asian Humanities AHU V 3342x, y Masterpieces of Islamic and Indian Art

Analysis and discussion of the significance of selected works of art and architecture of Islam and Buddhist and Hindu India.
3 points. *Not offered in 1997-98.* II H

COURSES IN THE MAJOR

Middle East & South Asia MDE W 3000y **Theories of Culture: Middle East and South Asia**

A critical introduction to theories of culture as they are related to the Middle East and South Asia. Enables students to articulate their emerging knowledge of these two regions and cultures in a theoretically informed knowledge.

—M. van de Mierop

Required of all majors. Limited to 35 students.
4 points. II H

East Asian EAS W 3901x, y **Senior Seminar: China**

Senior paper seminar, required of all majors specializing in China. —D. Wang and Staff
Senior majors only. Prerequisite: Permission of department representative.

3 points.

East Asian EAS W 3903x, y **Senior Seminar: Japan**

Senior paper seminar, required of all majors specializing in Japan. —H. Smith and Staff
Senior majors only. Prerequisite: Permission of department representative.

3 points.

East Asian EAS W 3905x, y **Senior Seminar: Korea**

Senior paper seminar, required of all majors specializing in Korea. —G. Ledyard and Staff
Senior majors only. Prerequisite: Permission of department representative.

1 point (W 3905x); 2 points. (W 3906y).

East Asian EAS V 3999y **Research in East Asian Studies**

Introduces students to the inter-disciplinary methods and materials of East Asian studies, to prepare them for the senior thesis. Required for juniors who are East Asian majors and who are not enrolled in either Historiography of East Asia (East Asian W 4103) or Critical Approaches to East Asian literature (East Asian W 4101).

—M. Tsin

1 point.

East Asian EAS W 4101y **Critical Approaches to East Asian Literature**

Principles of literary theory developed in the West, contrasted with literary criticism of China and Japan. Emphasis on the application of these critical methods to selected works of Chinese and Japanese poetry and prose. —H. Shirane

3 points.

II H

East Asian EAS W 4103y **Historiography of East Asia**

Major issues in the practice of history illustrated by critical reading of important historical work on East Asia. —M. Tsin

Two-hour seminar plus additional one-hour workshop in bibliography and research methods.

Designed primarily for majors in East Asian Studies in their junior year. Instructor permission required.

3 points.

II S

Asian Studies ASN BC 3999x, y **Independent Study**

Specialized reading and research projects planned in consultation with members of the Asian and Middle Eastern Cultures teaching staff. —Staff
Open to majors who have fulfilled basic major requirements on written permission of the staff member who will supervise the project.

4 points.

EAST ASIAN

Anthropology-Asian Studies AAS V 3915y **Asians in America**

An exploration of the issues entailed in the construction of contemporary Asian-American identities, communities, and cultures, using frameworks developed by anthropologists. Particular attention will be paid to how Asian American groups represent themselves and how they get placed in the complex hierarchies of American race, ethnicity, gender, and class. —M. McLagan

Priority given to senior and junior Anthropology and Asian Studies majors.

4 points.

I S

Art History ARH V 3910x **Art of the Han Dynasty**

—Instructor TBA.

3 points. *Not offered in 1997-98.*

II H

Art History ARH V 3201y **Arts of China**

A survey of major arts of ceramics, bronzes, jades, painting, and calligraphy. Museum laboratory sessions. —Instructor TBA.

3 points. *Not offered in 1997-98.*

II H

East Asian EAS V 3315y **Literature and Film in Modern China**

An intensive examination of modern Chinese fiction and films in the context of Chinese social, political, and cultural dynamics from the May Fourth Movement (1919) to the present.

—D. Wang

3 points.

II H

East Asian EAS W 4333x

Japanese Literature: Beginning to 1900

Analysis and discussion of major works of prose, poetry, and drama (in English translation) from the ancient period to 1900, with particular attention to the relationship between literary texts and larger social, cultural, and political contexts. —H. Shirane
3 points. II H

East Asian EAS V 3405y

Women in Japanese Literature: Love, Sexuality, and Gender

Critical approaches to the representations of women in Japanese literature from the early period to the present with particular attention to gender constructions and women's writings. —T. Suzuki
3 points. II H

East Asian EAS V 3613y

Buildings and Cities in Japanese History

A survey of the Japanese tradition of architecture and city-building from its primitive origins until the present day. The emphasis is on the cultural meaning and social significance of the built environment as a critical mode of grasping the evolution of Japanese culture as a whole. —H. Smith
3 points. II H

East Asian EAS V 3615x

Japanese Literature and Film

Japanese stories and visions, from the late 19th century to the present. Topics include: the discovery of the new, the city, modern beauty, tragedy, the fantastic. Focus on the fiction of Soseki, Tanisaki, Kawabata, Oe, and Tsushima, and the films of Ozu, Mizoguchi, Kurosawa, Kobayashi, and Oshima. —P. Anderer
3 points. II H

East Asian EAS V 3623y

The World of the Shining Prince

3 points. Not offered in 1997-98. II H

East Asian EAS W 3334x

Introduction to Modern Japanese Literature

Analysis and discussion of representative works of Japanese literature from the mid-19th century to contemporary literature. —P. Anderer
3 points. Not offered in 1997-98. II H

East Asian EAS V 3627y

Who Is the Samurai?

Close reading and discussion of primary and secondary texts representing the samurai in various periods of Japanese history. The chief questions to be asked are: How did members of the warrior class, both men and women, live? What did they

do? How did they think of themselves? How have others conceived of them? —G. Pflugfelder
Enrollment limited to 20 students, with priority given to seniors, EALAC/History majors.
Prerequisite: V 2361 or V 2002.
3 points. II H

East Asian EAS W 4836x

Female Religious Traditions in Pre-Modern Japanese Culture

—R. Ruch
3 points. II H

History-Japanese W 4839x

Japan in the 19th Century

—H. Smith
3 points. II H

History-Japanese W 4840y

Japan in the 20th Century

—B. Brooks
3 points. II H

East Asian EAS V 3920x

The Literary World of the Confucian Gentleman

3 points. II H

East Asian EAS V 3565y

The Erotic Tradition in Classical Chinese Literature

Exploring the way traditional Chinese writers, especially men, have expressed their attitudes toward sexuality and desire in their writings. Emphasis on how the treatment of women in traditional Chinese society led to the development of motifs and themes that have dominated the erotic and romantic traditions up to the modern period. Attention also given to women writers whose work has been translated. —P. Rouzer
3 points. II H

Chinese CHI W 3550x

Modern Chinese Literature and Its Classical Tradition

3 points. Not offered in 1997-98. II H

East Asian EAS V 3635x

The Female Voice in Japanese Literature: Major Works of Six Modern Women Writers

Readings in translation and discussion of the works of six major Japanese women writers and critics. In 1997, Kono Taeko's work and her critiques of other selected women writers will be highlighted. —B. Ruch
3 points. H

East Asian EAS V 3210x

Korean Lives

An examination of key events, institutions, and

ASIAN AND MIDDLE EASTERN CULTURES

personalities in Korean history from the 18th to the 20th centuries, as seen through Korean biographical literature in translation. The emphasis is on individual responses to the challenges and problems Korea has faced in its path from Confucian kingdom to modern industrial state.

—G. Ledyard

3 points.

II H

Chinese-History CHH V 3418x

Gods, Ghosts, and Ancestors: Social History of Chinese Religion

Problems in the social history of Chinese religion, viewed as much as possible through primary documents in translation. Focuses on the place of religious ideas and practices (including those of the high traditions of Buddhism, Taoism, and Neo-Confucianism) in everyday life and examines the relation of images of ancestors, gods, ghosts, paradise, and hell to Chinese models (explicit and implicit) of human society. —R. Hymes

3 points.

II S

East Asian EAS V 3310y

Rebellion and Revolution in Modern China

Social protest and revolutionary movements in 19th- and 20th-century China, with an emphasis on sectarian rebellion, secret societies, and the development of the Communist revolution. —M. Zelin

3 points.

II S

History-Japanese HIJ W 3600x

World War II in American and Japanese History

3 points.

II S

East Asian EAS V 3650x

The Family in Chinese History

3 points. Not offered in 1997-98.

II H

History HIS BC 3443y

Images of China and America

4 points. Not offered in 1997-98.

II S

History HIS BC 1021x

Late Imperial China, 1550-1900

—R. Lufrano

3 points.

II S

History HIS BC 1022y

China in the 20th Century

—R. Lufrano

3 points.

II S

History HIS BC 3430x

The Cultural Revolution in China

—R. Lufrano

Limited enrollment. Preregistration required.

4 points.

II S

History HIS W 4835x

History of Modern China I

—M. Zelin

3 points.

II S

History HIS W 4836y

History of Modern China II

—M. Zelin

3 points.

II S

East Asian EAS V 3580y

Dominance, Resistance, and Political Culture in Modern China

Explores the shaping of political culture in modern China by asking how forms of power-government, social, description, economic, etc., were structured, exercised, and contested in the late imperial and republican periods. —M. Tsing

3 points.

II S

East Asian EAS W 4240y

The Mongols in History

—M. Rossabi

3 points.

II S

History-Korean HIK W 4031x

The History of Korea to 1636

—G. Ledyard

3 points. Not offered in 1997-98.

History-Korean HIK W 4033y

The History of Modern Korea

3 points.

II S

Religion REL V 3613x

Japanese Religious Traditions

—R. Abe

3 points.

II H

Religion REL V 2640x

Chinese Religious Traditions

3 points.

II H

Religion REL V 3630y

Taoism

4 points.

II H

Religion REL V 2608y

Buddhism: East Asia

—R. Abe

3 points.

II H

Religion REL V 3804y, Sec. 52

Body, Gender, and Belief in China

—A. Zito

4 points.

II H

Theatre THR BC 3831x

Japanese Theatre: Gender and Performance

—C. Orenstein

4 points.

II H

MIDDLE EAST AND SOUTH ASIA

Anthropology ANT V 3009y

Peoples and Cultures of North Africa and the Middle East

—Instructor TBA.

3 points. Not offered in 1997-98.

II H

Arabic Literature MDE W 3220y

Negotiating Identity in Modern Arabic Literature

An introduction to modern Arabic literature in translation, with special emphasis on its centrality in negotiating identity within and against dominant cultural structures. Issues discussed are gender construction, tensions between individualism and collectivism, ambivalent relationships with the past, and competing visions of the future. No knowledge of Arabic is required.

—M. Al-Nowaihi

3 points.

II H

Hebrew MDE W 3540y

Introduction to Modern Hebrew Culture

An introduction to the modern, secular Hebrew culture of the last two hundred years. Distinguishes it from the continuity of traditional Jewish cultures, delineates some of its salient features, and indicates its scope and depth. Reading proficiency in Hebrew not required.

—D. Miron

3 points.

II H

Hebrew MDE W 3520y

Introduction to Modern Hebrew Poetry

A survey of dominant figures and major schools in Hebrew poetry from the beginning of the 20th century to 1948. Works of H.N. Bialik, E. Raab, L. Goldberg, N. Alterman, E.Z. Greenberg, D. Ravikovitch, and others. (In English.)

—N. Gold

3 points.

History HIS W 1002y

Ancient History of Mesopotamia and Anatolia

—M. Van de Mieroop

3 points.

II S

History HIS W 1004y

Ancient History of Egypt

—M. Van de Mieroop

3 points.

II S

History HIS W 4825x

History of Modern South Asia

—A. Jalal

3 points.

II S

History HIS W 3772y

South Asia in the 20th Century

—A. Jalal

3 points.

II S

Islamic-Science MDE W 3240x

Islam, Science, and the West

Surveys the interaction between the religious Islamic dogma and the "foreign" sciences—the name applied mainly to the Greek sciences in early Islam—and continues into modern times to examine the interaction between Western European science and Islam. —G. Saliba

3 points.

II H

Turkic W 3940y

The Literature and Cultural History of the Turks

A survey of the literature and culture of the Turks in the context of their social and political history. Readings and analysis of works from pre-Islamic and (for the modern period) Western influences. Knowledge of Turkish not required.

—K. Burrill

3 points.

Religion REL V 1102x

Introduction to Asian Religion

—A. Zito, J. Hawley

3 points.

II H

Religion REL V 2600y

Hinduism

—J. Hawley

3 points.

II H

Religion REL V 2601y

Philosophies of India

—G. Tubb

3 points.

II H

Religion REL V 2607x

Buddhism: Indo-Tibetan

—R. Thurman

3 points.

II H

Religion ISR V 2630y

Islam

—P. Awn

3 points.

II H

Religion REL V 3000y

Buddhist Ethics

—R. Thurman

3 points.

II H

Religion REL V 3593y

Hindu Ethics

—M. McGee

3 points.

II H

ASIAN AND MIDDLE EASTERN CULTURES

Religion REL V 3595x
Perspectives on the Feminine in Hindu Traditions
—M. McGee
3 points.

Religion REL V 3605x
Sikhism
—G. Mann
3 points.

Religion REL V 3803x, Sec. 14
Krishna
—J. Hawley
4 points.

Religion REL V 3803x, Sec. 36
Seminar on Classical Sufi Texts
—P. Awn
4 points.

Religion REL V 3804y, Sec. 34
Tibetan Philosophy
—R. Thurman
3 points. *Not offered in 1997-98.*

Religion REL V 3820y
Religion and Society in Modern India
—J. Hawley
4 points.

Religion REL W 4342x
Vedic Religion
—L. Bulliet
3 points.

Women's Studies WMS BC 3505x
Women, Islam and Nationalism
—A. Najmabadi
3 points.

COMPARATIVE COURSES

History HIS W 3950x
World War II Undergraduate History Seminar
—C. Gluck
4 points. *Not offered in 1997-98.* I S

Political Science POS BC 3414y
Women in Third-World Politics
4 points. I S

Religion REL V 3803x
Religious Worlds of New York
—J. Hawley, J. Weisenfeld
4 points. I H

Also note offerings under departments of Anthropology, Art History, History, Political Science, Religion, Theatre, and Women's Studies.

ASIAN LANGUAGE COURSES

Language and literature courses are offered through the departments of East Asian Languages and Cultures and Middle East and Asian Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for all the languages offered and detailed descriptions of courses.

ASIAN-AMERICAN STUDIES

For courses in Asian-American studies, see listings under American Studies.

GRADUATE COURSES

Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Consult the *Bulletin of the Graduate School of Arts and Sciences* for listings.

BIOLOGICAL SCIENCES

1203 Altschul Hall
General Biology Course Office: 911 Altschul Hall

854-2437
854-2153

Professors: Philip V. Ammirato (Chair), Elizabeth S. Boylan (Provost), Paul E. Hertz

Associate Professor: James P. Mohler

Assistant Professors: James A. Danoff-Burg (Visiting), John Glendinning, Janet M. Larkin, Ruth E. McChesney, Brian R. Morton, Bruce A. O'Gara, Jeanne S. Poindexter

General Biology Laboratory Staff:

Director: Alice M. Walrath

Associate Director: Kathleen Marquis

Laboratory Associates: Joe Ahn, Margery Doscher, Gunnar Kleemann, Harriet Waks

Biology is a field that explores the structure, function, interactions, and evolution of living organisms. Some of the most exciting issues of our era, such as those relating to biotechnology, genetic engineering, environmental problems, and health, require a strong background in biology. At Barnard, courses cover molecular biology; the fine structure, development, and physiology of cells, tissues, and organs; the embryology, behavior, and structure of organisms; and the ecology and evolution of populations and communities.

Many students specialize in Biology in preparation for a career in medicine, dentistry, public health, or nutrition, while others anticipate graduate work in one of the many sub-fields of biology leading to a teaching and/or research career. Still others plan futures as scientific writers, illustrators, or photographers, or as researchers in industry, government, or environmental law.

Equipment available at Barnard includes an RCA 4B transmission electron microscope and an ISI SX-40 scanning electron microscope with accessory equipment, photomicrographic and darkroom instruments, microcomputers, a scintillation counter, an ultracentrifuge, an automated oxygen analyzer, a PCR thermocycler, a chemostat, and computer-based neurophysiology data acquisition systems. The facilities include an autoradiography facility, constant temperature rooms, darkrooms, an animal care facility, a workshop, and a greenhouse. A Biology Club, originated and governed by students and sponsored by the department, presents seminars and film programs of interest.

Students are encouraged to do summer work in biological laboratories or field stations. Financial assistance for such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund, the Herbert Maule Richards Fund, the Maura Shannon Barrett '83 Internship Fund, or the Donald and Nancy Ritchie Fund. The department maintains a file of summer courses and research stations, and information on available funds can be obtained in the department office. Support for participation or assistance in the research of the Barnard faculty is available from research grants and program grants. Advanced students may also work as Teaching Assistants in introductory courses.

The Barnard Biology Department offers several options at the introductory level; students should select courses on the basis of their prior preparation and background in Biology. For students with little prior experience, BC 1001x provides an appropriate introduction to important concepts in the field. Biology BC 1002y expands upon that introduction with detailed discussions of three important topics. Both BC 1001 and BC 1002 include a laboratory component and together fulfill Barnard's laboratory science requirement (though neither course receives credit for the Biology major). Alternatively, a student who is interested in a broader treatment of the field in preparation for advanced study in Biology may enter the 2000-level sequence (BC 2001y) immediately after completing BC 1001x.

However, students who enter Barnard with a strong background in Biology should enroll directly in the 2000-level sequence. The four 2000-level courses (two lecture courses and

two laboratory course) comprise an introduction that is suitable for potential Biology majors, majors in the other sciences, and students interested in the health professions. The 2000-level introductory courses are prerequisites for upper-level courses in the department. Either BC 2001 or BC 2002 may be taken first.

Students who have passed the Advanced Placement examination with a grade of 4 or 5 and of satisfactory laboratory experience are exempt from BC 1001 and receive 3 points of AP credit. A laboratory notebook may be submitted to the department for a possible 1-1/2 points of additional credit. Students who receive AP credit with a grade of 4 or 5 may complete the science requirement with BC 1002. If a student anticipates further study of Biology or other natural sciences, she should instead enroll in the 2000-level sequence; completion of either BC 2003 or BC 2004 and either BC 2001 or BC 2002 will fulfill the science requirement for a student who receives AP credit.

REQUIREMENTS FOR THE MAJOR

The curriculum for Biology majors is designed to satisfy the needs of students who plan to engage in postgraduate study of Biology or medically oriented fields and to complement the general education mission of a liberal arts college. The minimum requirements for a major in Biology are listed below:

Introductory Biology. Students must complete a year of introductory biology, including the laboratory (BC 2001, 2002, 2003, 2004, or equivalent). Students who enrolled at Barnard before September 1992 are not required to take BC 2004.

Three Core Lecture Courses. One lecture course must be selected from each of the following three categories:

- 1. BC 3302 *Molecular Biology* or BC 3310 *Cells and Tissues*
- 2. BC 3340 *Plant Physiology* or BC 3360 *Animal Physiology*
- 3. BC 3380 *Evolution* or BC 3372 *Population and Community Ecology*

Three Elective Lecture Courses. Students must take three additional lecture courses in Biology. Any biology lecture course can be chosen, including core courses not used to fulfill that requirement. Courses should reflect the diversity of the offerings. At least one course in genetics and one in organismal biology are recommended. Courses numbered at the 3200-level are particularly appropriate for sophomores who have completed the 2000-level sequence; courses at the 3300 level are more advanced and may require additional prerequisites. Appropriate lecture courses at Columbia University may be used to satisfy the lecture requirement with the prior permission of the department chair.

Three Elective Laboratories. Students must complete at least three laboratories beyond Introductory Biology; at least one of the three must be a 3300-level course. Laboratories may require a lecture course as a corequisite or prerequisite; such requirements are specified in the course descriptions below. A student may count a Guided Research project (BC 3591) as an elective laboratory in accordance with the guidelines listed below; however, only one term of Guided Research will receive credit toward the major. Biology laboratories at Barnard require a lab fee of \$50 per course. Appropriate biology laboratories at Columbia University may be used to satisfy the lab requirement, as may those taken at other institutions, with permission of the department chair.

Senior Seminar or Individual Research with Seminar. Students must enroll in one section of the *Senior Seminar* (BC 3590) or complete a Guided Research project in the laboratory of a member of the Barnard Biology Department (BC 3591 or BC 3597), including concurrent participation in the *Research Seminar* (BC 3595). If a student completes a Guided Research project in lieu of the senior seminar, she may not also use a Guided Research project to fulfill part of the laboratory requirement.

Chemistry Requirement. One year of Chemistry with laboratory, including one term of Organic Chemistry, is required (Chemistry BC 1601, BC 3328, and BC 3230).

Participation in a special project (Biology BC 3591 or BC 3592) is highly recommended. These courses give the student an opportunity to conduct independent laboratory research. Both intradepartmental (BC 3591) and extradepartmental (BC 3592) projects require the approval of a faculty member in the department who serves as sponsor (intradepartmental projects) or as cosponsor (extradepartmental projects). All projects must involve planning, experimentation, and interpretation of results, and all require a formal report written in journal style. A Guided Research project (BC 3591) may be used in lieu of a Senior Seminar or an Elective Laboratory to fulfill Biology major requirements; however, Guided Research that is to be counted toward the major requires concurrent enrollment in the Research Seminar (BC 3595). Only one term of Guided Research will receive credit toward the major. Intradepartmental projects are graded by letter grade or Pass/D/Fail at the option of the faculty sponsor. Extradepartmental projects (BC 3592) earn only pass or fail grades; they do not fulfill any major requirements, but they do receive college credit.

Entering first-year students who plan to major in biology are encouraged to take these chemistry courses in addition to Biology BC 2001, 2002, 2003, and 2004 in their first year. Some upper-level biology courses require a second term of organic chemistry (Chemistry BC 3231, *Organic Chemistry II*). Students interested in attending graduate or professional schools should take additional chemistry courses (Chemistry BC 3232, *Intermediate General Chemistry*; BC 3338, *Quantitative and Instrumental Techniques Laboratory*) and in addition, one year each of calculus and physics; a course in statistics is also recommended. Students interested in behavioral biology may also wish to enroll in *Physiological Psychology* (Psychology BC 1117 or BC 1119); although the course does not fulfill any Biology major requirement, the grade for this course may be included in the Biology major average. Graduate work generally requires a working knowledge of one or more foreign languages.

Students interested in the health sciences should register with the Pre-Professional Office during their first two years and should take the MCAT exam at the end of their junior year.

REQUIREMENTS FOR THE MINOR

A minor in Biology must have one year of introductory biology (BC 2001, BC 2002, BC 2003, BC 2004), three additional lecture courses, and two additional laboratories. Biochemistry, Chemistry, Environmental Science, Physics, and Psychology majors need take only one advanced laboratory instead of two.

COURSES OF INSTRUCTION

BIO BC 1001x

Revolutionary Concepts in Biology

An exploration of the major discoveries and ideas that have revolutionized the way we view organisms and understand life. The basic concepts of cell biology, anatomy and physiology, genetics, evolution, and ecology will be traced from seminal discoveries to the modern era. The laboratory will develop these concepts and analyze biological diversity through a combined experimental and observational approach. (*Course does not fulfill Biology major requirements or premedical requirements.*) —P. Ammirato

Enrollment in laboratory sections limited to 16

students per section.

4.5 points. Lecture and Lab.

BIO BC 1002y

Contemporary Issues in Biology

An exploration of modern biology as it pertains to contemporary issues. The first module examines the biology of viral pathogens of animal cells, in particular, the virus responsible for AIDS. The second module considers human physiology and health, focusing on major health issues. The third module explores population growth and resource use, emphasizing the uniqueness of human populations. Lab exercises introduce biological techniques for studying these topics. (*Course does not fulfill*

Biology major requirements or premedical requirements.) —R. McChesney, B. O’Gara, H. Young
Prerequisites: BIO BC 1001, or AP score of 4 or 5, or equivalent preparation and background. Enrollment in laboratory sections limited to 16 students per section.
 4.5 points.

BIO BC 1099y Science and Scientists

Discussions led by research scientists from Barnard, Columbia, and other institutions. Topics include identifying research problems and conducting scientific research as well as recent conceptual and technical developments in science. —B. O’Gara
Enrollment limited to 16 first- & second-year students.
 1 point.

BIO BC 2001y Molecular, Cellular, & Developmental Biology

A detailed introduction to cellular and subcellular biology; cell structure and function; biochemical analysis of metabolic and catabolic pathways; molecular biology and the biogenesis of cell components; genetics and the biology of inheritance; patterns of development, embryology through neurulation. —J. Poindexter
Course suitable for fulfillment of premedical requirements. Prerequisites: BIO BC 1001 or AP score of 4 or higher, or equivalent preparation.
 3 points.

BIO BC 2002x Physiology, Ecology, and Evolutionary Biology

A detailed introduction to biological phenomena above the cellular level; development, anatomy, and physiology of plants and animals; physiological, population, behavioral, and community ecology; evolutionary theory; analysis of micro-evolutionary events; systematics. —P. Hertz
Course suitable for fulfillment of premedical requirements. Prerequisites: BIO BC 1001 or AP score of 4 or higher, or equivalent preparation.
 3 points.

BIO BC 2003x Biodiversity Laboratory

A laboratory-based introduction to the five kingdoms of living organisms; anatomy, physiology, evolution, and systematics of major groups; laboratory techniques for studying specialized adaptations. —Instructor TBA.
(Course suitable for fulfillment of premedical requirements.) Prerequisites: BIO BC 1001, or AP score of 3 or higher. Enrollment limited to 16 students per section.
 2 points.

BIO BC 2004y Biological Experimentation Laboratory

A laboratory-based introduction to experimental biology; classic and modern approaches to the investigation of growth, development, reproduction, heredity, environmental influences, enzymes, and correlation between structure and function. Experimental design, practical techniques, and data interpretation. —B. Morton
Course suitable for fulfillment of premedical requirements. Prerequisites: BIO BC 1001 or AP score of 3 or higher. Enrollment limited to 16 students per section.
 2 points.

BIO BC 3200x Genetics

Genetics of eukaryotes, prokaryotes, and viruses, with special emphasis on human genetics; segregation; recombination, mapping, and the measurement of linkage; cytogenetics; population genetics; molecular genetics. —B. Morton
Prerequisite: BC 2001, 2002, 2003, 2004, or the equivalent. One semester of chemistry is recommended.
 3 points.

BIO BC 3201x Laboratory in Genetics

Exercises in the use of *Drosophila*, *Neurospora*, bacteria, and bacteriophages to illustrate basic genetic principles and to investigate population genetics, linkage, and recombination, and biochemical genetics; techniques used in human genetics and cytogenetics. —B. Morton
Prerequisite or corequisite: BC 3200 or the equivalent. Enrollment limited to 16 students per section. Recitation and laboratory.
 3 points.

BIO BC 3240x Plant Biology

A survey of systems level biology of plants: reproductive biology, physiology, anatomy, morphology, and evolution. —Instructor TBA.
Prerequisite: BC 2001, 2002, 2003, 2004, or the equivalent.
 3 points.

BIO BC 3241x Laboratory in Plant Biology

Studies of the structure, ecology, and evolution of plants. Laboratory exercises include field problems, laboratory experiments, plant collections and identification, and examination of the morphology of plant groups. —Instructor TBA.
Prerequisite or corequisite: BC 3240. Enrollment limited to 16 students.
 3 points.

BIO BC 3250x

Invertebrate Zoology

The biology of invertebrate animals: comparative structure and physiology of the cells, tissues, and organs of invertebrates; the development, behavior, and evolution of these animals, stressing their adaptations to marine, freshwater, and terrestrial habitats. —J. Larkin

Prerequisite: BC 2001, 2002, 2003, 2004, or the equivalent.
3 points.

BIO BC 3251x

Laboratory in Invertebrate Zoology

Studies on the adaptive biology of invertebrate animals. A survey of major and minor phyla of invertebrates, including observations and other studies of living animals. One-third of the course will be devoted to an independent project involving electron microscopy, anatomy, physiology, behavior, or ecology. —J. Larkin

Prerequisite or corequisite: BC 2001, 2002, 2003, 2004, or the equivalent. BC 3250 is recommended as a prerequisite or corequisite, but is not required. Enrollment limited to 16 students.
3 points.

BIO BC 3252y

Animal Development

An introduction to animal development stressing the mechanisms that control developmental processes. Topics include spermatogenesis, oogenesis, fertilization, cleavage, establishment of the body plan, cellular events in gastrulation and morphogenesis, and control of gene expression in development. —J. Mohler

Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent.
3 points.

BIO BC 3260y

Vertebrate Zoology

A systematic survey of the Phylum Chordata: fossil history, biogeography, systematics, natural history, body architecture, energetics, locomotion, feeding, and behavior. —P. Hertz

Prerequisite: BC 2001, 2002, 2003, 2004, or the equivalent.
3 points.

BIO BC 3280y

Animal Behavior

Introduction to animal behavior; physiological bases of behavior (sensory systems, neurophysiology of behavior, appetitive and reproductive behavior), ethological approaches to behavior (communication, territoriality, dominance, and aggression) and

evolution of behavior (behavior genetics, behavioral ecology, sociobiology). —Instructor TBA.

Prerequisite: BC 2001, 2002, 2003, 2004, or one year of psychology.
3 points.

BIO BC 3302x

Molecular Biology

An introduction to molecular biology. Topics include: genome organization, DNA replication, regulation of RNA synthesis, protein synthesis, macromolecular cell biology, and control of gene expression in development. —J. Mohler

Prerequisites: BC 2001 or the equivalent and a year of chemistry, including one term of organic chemistry with laboratory.
3 points.

BIO BC 3303y

Laboratory in Molecular Biology

An introduction to the use of molecular techniques to answer questions about subcellular biological phenomena. Techniques include isolation of genomic and plasmid DNAs, restriction enzyme analysis, DNA and protein electrophoresis, bacterial transformation, and plasmid sub-cloning. —J. Mohler

Prerequisite or corequisite: BC 3302 or permission of the instructor. Enrollment limited to 16 students.
3 points.

BIO BC 3305y

Project Laboratory in Molecular Biology

A project laboratory in molecular biology of *Drosophila*. Experiments will include isolation of phage, plasmid, and genomic DNA: screening of DNA libraries; restriction mapping, Southern analysis, and characterization of RNA transcripts. Project will characterize a particular unknown *Drosophila* sequence and RNA derived in vivo from that DNA. —J. Mohler

Prerequisite: BC 3302 or permission of the instructor; Chemistry BC 3355x is recommended. Enrollment limited to 12 students.
5 points.

BIO BC 3307x

Project Laboratory in Plant Molecular Biology

A project laboratory in molecular biology of plants. Experiments will include transformation of plants using bacterial vehicles and analysis of transformed cells and tissues using nonradioactive screening techniques. Screening of plant genomic libraries and analysis of RNA transcripts.

Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent, and one semester of organic chemistry. Upper-level laboratory recommend BC3321, 3343, or

3341 and permission of the instructor. Enrollment limited to 16 students.

5 points.

BIO BC 3310y **Cells and Tissues**

Structural, molecular, and physiological aspects of cells and tissues in vertebrate animals; electron microscopic studies of the structure of cell organelles; modern concepts of function. —J. Larkin
Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent, and one advanced biology course. A year of chemistry, including organic chemistry, is required.
3 points.

BIO BC 3311y **Laboratory in Cell and Tissue Biology**

Correlated light microscopic and electron microscopic analyses of the structure of tissues and organs of vertebrate animals; demonstrations and practice in histochemical, light microscopic, and electron microscopic techniques. —J. Larkin
Prerequisite or corequisite: BC 3310 or the equivalent. Enrollment limited to 16 students.
3 points.

BIO BC 3320x **Microbiology**

Study of prokaryotic and selected eukaryotic microorganisms with regard to cell structure, physiology, and metabolism; genetic mechanisms and interrelationships in bacteria. Some aspects of applied microbiology, the role of microorganisms in natural processes, aspects of pathogenicity and immunity to disease. —J. Poindexter
Prerequisites: BC 2001, 2002, 2003, 2004, and one semester of organic chemistry.
3 points.

BIO BC 3321x **Laboratory in Microbiology**

Provides experience in the isolation, cultivation, and preservation of pure cultures of microorganisms from natural populations. Methods used for study of cell structure, growth, physiology, and genetics of bacteria will be followed by a small independent project. —J. Poindexter
Prerequisite or corequisite: BC 3320. Enrollment limited to 16 students. Recitation and laboratory.
3 points.

BIO BC 3340y **Plant Physiology**

Processes of metabolism, nutrition, growth, and development of green plants; photosynthesis, respiration, nitrogen and intermediate metabolism, water and solute uptake and transfer,

translocation, plant growth regulators, tropisms and nasties, photoperiodism, vernalization, dormancy senescence, and death. —P. Ammirato
Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent, and one term of organic chemistry.
3 points.

BIO BC 3341y **Laboratory in Plant Physiology**

Determination of water potential and transpiration rates. Solute uptake and mineral deficiency studies. The Hill reaction. CO₂ compensation points and respiration rates. Extraction, separation, and identification of amino acids, nucleic acids, and plant hormones. Bioassay procedures with whole plants and cell cultures. Studies of phytochrome controlled germination and photomorphogenesis. —P. Ammirato
Prerequisite or corequisite: BC 3340. Enrollment limited to 16 students.
3 points.

BIO BC 3342y **Plant Development**

Process of growth; differentiation, and organization in plants; major morphogenetic events in the transition from zygote to flowering plant; hormonal and environmental effects and mechanisms of action. —P. Ammirato
Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent, and one semester of organic chemistry.
3 points.

BIO BC 3343y **Laboratory in Plant Development**

An experimental approach to patterns, processes, and control mechanisms of plant development. Meristems and cell differentiation; embryogenesis and organogenesis; responses to hormones and environmental variables. Work with whole plant, organ, and cell cultures. —P. Ammirato
Prerequisite or corequisite: BC 3342. Enrollment limited to 16 students.
3 points.

BIO BC 3360x **Animal Physiology**

Physiology of major organ systems; function and control of circulatory, respiratory, digestive, excretory, endocrine, nervous, and immune systems in animals; emphasis on vertebrates. —Instructor TBA.
Prerequisites: Three semesters of biology and one semester of organic chemistry.
3 points.

BIO BC 3361x

Laboratory in Animal Physiology

Physiographic recording of cardiac, respiratory, and muscle function. Other exercises include enzyme kinetics, active transport, and exercise physiology. —Instructor TBA.

Prerequisite or corequisite: BC 3360. Enrollment limited to 16 students. Recitation and laboratory. 3 points.

BIO BC 3362x

Neurobiology

Structure and function of neural membranes; ionic basis of membrane potential and action potential; synaptic transmission and neurochemistry; sensory transduction and processing; reflexes and spinal cord physiology; muscle structure and function; neuronal circuitry; nervous system development. —B. O’Gara

Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent, and one semester of organic chemistry. BIO BC 3360 or PSY BC 1117 or BC 1119 is recommended. 3 points.

BIO BC 3363y

Laboratory in Neurobiology

Introduction to techniques commonly used in current neurobiological research, including intracellular and extracellular recording of action potentials, neuroanatomical methods, and computer simulation of the action potential. —B. O’Gara

Prerequisite or corequisite: BIO BC 3362. Enrollment limited to 16 students. 3 points.

BIO BC 3370x

General Ecology

Effects of selected physicochemical environmental factors on organisms in populations and communities; characteristics of major terrestrial and aquatic ecosystems; human influences on the environment. —Instructor TBA

Prerequisites: BIO BC 2001, 2002, 2003, 2004, or the equivalent. 3 points.

BIO BC 3372x

Population and Community Ecology

Introduction to evolutionary ecology; life history strategies, population growth, competition, predator-prey interactions, population regulation, species diversity, community organization, biogeography. Lectures integrate theory with empirical studies. —P. Hertz

Prerequisites: BIO BC 2001, 2002, 2003, 2004, and any additional biology course. 3 points.

BIO BC 3373y

Laboratory in Ecology

The definition of ecological problems in experimentally tractable ways; the design of experiments and analysis of ecological data; class projects on population ecology. Students conduct individual projects during last month of term. —P. Hertz

Prerequisite or corequisite: BC 3370 or BC 3372. Enrollment limited to 16 students. 3 points.

BIO BC 3374y

Epidemiology

Principles of epidemiology and the application of epidemiologic methods to the study of populations. Topics include study designs in epidemiology; determinants of exposure and outcome; analytic issues in acute, communicable, and chronic disease epidemiology; introductory genetic, molecular, and environmental epidemiology.

—R. McChesney

Prerequisites: BC 2001, 2002, or the equivalent. 3 points.

BIO BC 3380y

Evolution

A study of the process of evolution with emphasis on the mechanisms underlying evolutionary change. Topics include rates and direction of evolution, genetics of the evolutionary process, adaptive significance of sex and life history variation, coevolution. —Instructor TBA.

Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent. 3 points.

BIO BC 3386x

Biometry

Application of quantitative approaches and statistical methods to the analysis of biological problems; data collection, descriptive statistics, probability theory, inferential statistics. Computer applications for data analysis. Examples to be drawn from contemporary biology. —R. McChesney

Prerequisites: BC 2001, 2002, 2003, 2004, college-level algebra, or the equivalent. Enrollment limited to 16 students. 4 points.

BIO BC 3590x, y

Senior Seminars in Biology

Required of all majors who do not select Guided Research (BIO BC 3591) to fulfill the senior requirement, these seminars allow students to explore the primary literature in the Biological Sciences in greater depth than can be achieved in a lecture course. Attention will be focused on

both theoretical and empirical work. Seminar periods are devoted to oral reports and discussion of assigned readings and student reports. Students will write one extensive literature review of a topic related to the central theme of the seminar section.

4 points.

1. Plant Biotechnology

—P. Ammirato

2. Evolutionary Ecology

—P. Hertz

3. Molecular and Development Genetics

—J. Mohler

4. Tropical Biology

—H. Young

5. Virus Structure and Propagation

—J. Poindexter

6. Neurobiology

—B. O’Gara

7. Population Health

—R. McChesney

8. Molecular Regulation of Intracellular Trafficking

—J. Larkin

9. Molecular Evolution

—B. Morton

BIO BC 3591x, y

Guided Laboratory Research

Independent research in the department to suit the needs of the individual student in consultation with faculty sponsor. Participation in department Research Seminar (BC 3595) required.—Staff
Prerequisites: Three semesters of college biology and permission of a faculty sponsor. *Corequisite:* BC 3595. *Graded with a letter grade or P*/D/F at the discretion of the faculty supervisor.*

4 points.

BIO BC 3592x, y

External Research in Biology

Research projects conducted outside the department developed in consultation with a faculty member who serves as cosponsor. —Staff

Prerequisites: Three semesters of college biology and permission of a faculty cosponsor. 1-4 points.

Hours TBA. NOTE: BC 3592 does not receive credit toward the biology major. Graded P/D/F.*

BIO BC 3593x-3594y

Research and Seminar in Biopsychology

Independent research under faculty supervision culminating in a research paper and oral presentation. Throughout the year, weekly seminars will be used to discuss research approaches, methodological difficulties, and data analysis. —Staff
Prerequisites: Six of the required courses for the biopsychology major.

4 points.

BIO BC 3595 x,y

Research Seminar

Discussions of approaches to research, methods of scientific communication, and the presentation of scientific data, culminating in a paper and oral report of the results of a research project guided by a faculty sponsor. —R. McChesney

Corequisite: BC 3591.

1 point.

BIO BC 3597 x,y

Guided Library Research

Independent library-based research in consultation with Barnard faculty sponsor to suit the needs of the individual student.

Prerequisite or corequisite: Research Seminar (BC 3595) and fulfillment of all requirements of the Research Seminar. Weekly meetings with research mentor. *Graded with a letter grade or P*/D/F at the discretion of the faculty supervisor.*

4 points.

Advisers: Bruce O’Gara (Biological Sciences), Rae Silver (Psychology)

The program in Biopsychology is jointly administered by the departments of Biological Sciences and Psychology, and students should maintain contact with the advisers in both departments. A major in Biopsychology provides a strong background in the behavioral sciences and is intended for students who plan to pursue a research career in Biopsychology or Behavioral/Cognitive Neuroscience or related disciplines. Students electing this track are exposed to basic courses in Biology and Psychology and advanced courses necessary for the study of behavior. All students engage in two semesters of independent research in the senior year. Substitutions for required courses may be allowed with the approval of both advisers. To become a Biopsychology major, students must have completed at least two required courses in each discipline (Biology, Chemistry, and Psychology) before the beginning of their junior year with a B average in these courses.

The major examination consists of the Graduate Record Examination in either Psychology or Biology.

Students may also arrange interdisciplinary programs by electing a major in either Psychology or Biological Sciences and a minor in the other discipline, or by planning a double major. **There is no minor in Biopsychology.**

REQUIREMENTS FOR THE MAJOR

Psychology	BC 1001	<i>Introduction to Psychology</i>
Biology	BC 2001, 2002, 2003, 2004	<i>Introductory Biology</i>
Psychology	BC 1105	<i>Psychology of Learning with Laboratory</i>
Biology	BC 3280	<i>Animal Behavior</i>
Biology/Psych	BC 3593-BC 3594	<i>Research and Seminar in Biopsychology</i>
One of the following courses:		
Biology	BC 3386	<i>Biometry</i>
Psychology	BC 1101	<i>Statistics</i>
Two of the following courses; one must include the associated laboratory:		
Psychology	BC 1117 or BC 1119	<i>Physiological Psychology</i>
Biology	BC 3360/3361	<i>Animal Physiology/Physiology Laboratory</i>
Biology	BC 3362/3363	<i>Neurobiology/Neurobiology Laboratory</i>
Two advanced courses selected from different categories below:		
I.	Psychology BC 2154	<i>Hormones and Reproductive Behavior</i>
	Psychology BC 3378	<i>Females and Males</i>
	Psychology BC 3169	<i>Developmental Psychobiology</i>
II.	Biology BC 3372	<i>Population and Community Ecology</i>
	Biology BC 3380	<i>Evolution</i>
III.	Psychology BC 3164	<i>Perception and Language</i>
	Psychology BC 3177	<i>Psychology of Drug Use and Abuse</i>
	Psychology BC 3375	<i>Organization of Movement</i>
	Psychology BC 3374	<i>Theories of Learning</i>
	Psychology BC 3380	<i>Fundamentals of Neuropsychology</i>
IV.	Biology BC 3200	<i>Genetics</i>
	Biology BC 3302	<i>Molecular Biology</i>
	Biology BC 3310	<i>Cells and Tissues</i>
	Biology-Chemistry C3501	<i>Biochemistry</i>
	Biochemistry G 4021	<i>General Biochemistry</i>

Cognate Courses

The following chemistry courses are required: BC 1601, BC 3328, and BC 3230. Students are encouraged to take additional courses in chemistry, physics, and math if they intend to apply to medical or graduate schools.

Professors: Sally Chapman (Chair), Leslie Lessinger

Assistant Professors: Elise Megehee, Daniel Robie, Christian Rojas, Ann Shinnar

Director of General Chemistry Laboratories: Olympia Jebejian

Associates: Jean Donahue, Frances Feerst, Toby Holtz, Colette Levi, Suqing Liu, Meenakshi Rao

Chemistry is the study of the nature of substances and their transformations. In a three-year sequence of core courses, a chemistry or biochemistry major gains familiarity with the basic areas of the field: inorganic, organic, physical, and analytical chemistry. In addition, she acquires sufficient skill in the laboratory so that she is prepared for independent research.

Students who have taken the Advanced Placement Test may be given advanced placement and one semester's credit with scores of 4 or 5, if they present evidence of satisfactory laboratory experience.

The laboratories of the department are modern and well equipped both for coursework and for independent projects. Students may undertake independent research projects under the guidance of members of the department during the academic year or the summer; some student work has been published in chemical journals. Opportunities are also available for undertaking research projects with members of the staff of one of the many medical schools or research institutions in New York City, as well as with the Columbia faculty.

Students wishing to fulfill the minimum two-year chemistry requirement for medical school should take Chemistry BC 1601, *General Chemistry*; Chemistry BC 3328, BC 3230, and BC 3231, *Organic Chemistry I and II* with laboratory; and Chemistry BC 3232, *Intermediate General Chemistry*. The laboratory courses Chemistry BC 3333 and 3338 are recommended.

Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.

The laboratory fee covers the cost of non-returnable items, laboratory manuals, chemicals, and other consumable supplies, as well as reasonable breakage. Enrollment is limited in all laboratories; students must sign up during the preregistration period.

REQUIREMENTS FOR THE MAJOR

Two majors are offered by the department: chemistry and biochemistry. A major examination is required for both chemistry and biochemistry; there is no senior essay required for either. Qualified seniors are invited to participate in the senior honors program in which they carry out a year-long research project leading to a thesis.

Chemistry

A student who is interested in chemistry should consult any member of the department during her first year. In the first year she should take Chemistry BC 1601, BC 3328, and BC 3230, and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. After completing the undergraduate curriculum, students are encouraged to take graduate courses in chemistry or biochemistry at Columbia, and to undertake independent research projects.

Courses required for the chemistry major are:

Chemistry BC 1601

Chemistry BC 3328, 3230

General Chemistry I

Organic Chemistry I with Laboratory

Chemistry BC 3231	Organic Chemistry II
Chemistry BC 3335	Modern Techniques of Organic Chemistry Laboratory
Chemistry BC 3340	Quantitative and Instrumental Techniques Laboratory
Chemistry BC 3252	Introduction to Thermodynamics and Kinetics
Chemistry BC 3253	Structure, Bonding, and Spectroscopy
Chemistry BC 3254	Methods and Applications in Physical Chemistry
Chemistry BC 3271	Inorganic Chemistry
Chemistry BC 3365, 3368	Physical Chemistry Laboratory
Mathematics	Calculus I and II in any sequence (S, A, or honors)
Physics BC 1206, 1207	Calculus-based Physics with Laboratory
or V 1301, 1302 with V 1391, 1392,	
or C 1401, 1402 with C 1491, 1492	

Recommended: *Calculus III*.

A list of major requirements, several possible course sequences, and information about the major examination may be obtained from any member of the department.

Research experience is strongly recommended for students planning graduate study. Students interested in taking Chemistry BC 3599 should consult with individual faculty members about the research problems currently being investigated.

Biochemistry

Courses required for the biochemistry major are:

Chemistry BC 1601	General Chemistry I
Chemistry BC 3328, 3230	Organic Chemistry I with Laboratory
Chemistry BC 3231	Organic Chemistry II
Chemistry BC 3333	Modern Techniques of Organic Chemistry Laboratory
Chemistry BC 3338	Quantitative and Instrumental Techniques Laboratory
Chemistry BC 3252	Introduction to Thermodynamics and Kinetics
Chemistry BC 3253	Structure, Bonding, and Spectroscopy
Chemistry BC 3254	Methods and Applications in Physical Chemistry
Mathematics	Calculus I and II in any sequence (S, A, or honors)
Physics BC 1206, 1207	Calculus-based Physics with Laboratory
or V 1301, 1302 with V 1391, 1392,	
or C 1401, 1402 with C 1491, 1492	
Biology BC 2001, 2002,	General Biology with Laboratory
with 2003 or 2004	
Chemistry BC 3282	Biological Chemistry
or Biology-Chemistry C 3501	Biochemistry I
Biology BC 3302	Molecular Biology
or Biology-Chemistry C 3512	Biochemistry II
Chemistry BC 3355	Biochemistry Laboratory Techniques

A 3-point elective course from a list of approved Biology and Chemistry courses.

A list of major requirements, including the courses from which the advanced laboratory and lecture electives are to be selected, and information about the major examination, may be obtained from any member of the department.

REQUIREMENTS FOR THE MINOR

Courses required for the Chemistry minor are: Chemistry BC 1601, BC 3328, BC 3230, BC 3231, BC 3333, BC 3338, and BC 3232 or BC 3252. There is no minor in biochemistry.

COURSES OF INSTRUCTION

CHE BC 1601x

General Chemistry I

Particulate nature of matter in various states; chemical transformations, especially of ionic substances; properties of gases; solutions; equilibrium; acid-base, precipitation, and oxidation-reduction reactions; thermochemistry; laboratory experience with both qualitative and quantitative techniques. —L. Lessinger, E. Megehee, D. Robie, O. Jebejian, and Associates
Prerequisite: Algebra (Math SAT I score of 600 or permission of the instructor for first-year students).
 5 points. Lecture. Recitation and laboratory one afternoon. Lecture and lab must be taken together unless permission of the instructor is given at the time of program filing. Laboratory fee: \$28.

CHE BC 1602y

General Chemistry II

Kinetics and mechanisms of chemical reactions; nuclear chemistry and radioactivity; atomic and molecular structure; selected topics in environmental chemistry, organic chemistry, and biochemistry. —A. Shinnar
Prerequisite: BC 1601 or permission of the instructor. Students who have completed BC 3230 or its equivalent may not subsequently receive credit toward the degree for BC 1602. Primarily for majors in fields other than science.
 5 points. Lecture. Recitation and laboratory one afternoon. Laboratory fee: \$28.

CHE BC 1702y

General Chemistry II Laboratory

Laboratory portion of Chemistry BC 1602.
 —D. Robie and Staff
Prerequisite: General Chemistry I with laboratory.
Corequisite: General Chemistry II lectures and permission of the instructor.
 2 points. Laboratory fee: \$28.
 Lecture. Recitation and laboratory one afternoon.

CHE BC 3328y

Introductory Organic Chemistry Laboratory

Basic techniques of experimental organic chemistry. Principles and methods of separation, purification, and characterization of organic compounds. Selected organic reactions. —Staff
Prerequisite: BC 1601 or equivalent with grade of C

or better, or BC 1601 and BC 1602 or equivalent.
Corequisite: BC 3230 or equivalent.
 2.5 points. Lecture and laboratory one afternoon.
 Laboratory fee: \$35.

CHE BC 3230y

Organic Chemistry I

Atomic and molecular structure; introduction to aliphatic and aromatic chemistry with emphasis on modern theories; organic reaction mechanisms, stereochemistry, and spectroscopy. —C. Rojas
Prerequisite: BC 1601 or equivalent with a grade of C or better, or BC 1601 and BC 1602 or equivalent.
 Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.
 3 points. Lecture. Problem section.

CHE BC 3231x

Organic Chemistry II

Continued treatment of the topics of Organic Chemistry I with extensions and an introduction to biological compounds and bio-macromolecules. —C. Rojas
Prerequisite: BC 3230.
 3 points. Lecture. Problem section.

CHE BC 3232y

Intermediate General Chemistry

Selected aspects of general chemistry, primarily for premedical and biological science students without the background for Chemistry BC 3252. Thermodynamics, equilibrium, kinetics, complex ions and coordination compounds, and radiochemistry, with applications to analytical chemistry and biochemistry. —E. Megehee
Prerequisites: BC 1601 and Organic Chemistry I.
 BC 3230 may be taken as a corequisite with permission of the instructor. Optional parallel laboratory work: BC 3338. Chemistry C 1404 is not an acceptable equivalent for BC 3232.
 3 points. Lecture.

CHE BC 3333x

Modern Techniques of Organic Chemistry Laboratory

Introduction to qualitative and quantitative organic analysis and to advanced techniques, emphasizing instrumental and chromatographic methods. Selected reactions. —C. Rojas

Prerequisites: BC 3230 and BC 3328.
C 3543 is not acceptable. *Corequisite:* BC 3231.
3 points. Lecture. Laboratory one afternoon.
Laboratory fee: \$35.

CHE BC 3335x
Modern Techniques of Organic Chemistry Laboratory

Identical to BC 3333, plus a library problem, a short project, and additional preparative experiments. —C. Rojas

Prerequisites: BC 3328 and BC 3230.

Corequisite: BC 3231.

5 points. Lecture. Laboratory two afternoons.

Laboratory fee: \$35.

CHE BC 3337x
Modern Techniques of Organic Chemistry Laboratory

Prerequisite: BC 3333x.

2 points. Laboratory one afternoon.

Note: CHE BC 3333x + 3337x = 3335x

CHE BC 3338y
Quantitative and Instrumental Techniques Laboratory

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Applications of computers.

—S. Chapman and O. Jebejian

Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3252.

3 points. Lecture. Laboratory one afternoon.

Laboratory fee: \$35.

CHE BC 3340y
Quantitative and Instrumental Techniques Laboratory

Identical with BC 3338, but with a greater variety and number of experiments. —S. Chapman and O. Jebejian

Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3252.

5 points. Lecture. Laboratory two afternoons.

Laboratory fee: \$35.

CHE BC 3342y
Quantitative and Instrumental Techniques Laboratory

Prerequisite: BC 3338y.

2 points. Laboratory one afternoon.

Note: CHE BC 3338y + 3342y = 3340y

CHE BC 3252y
Introduction to Thermodynamics and Kinetics

Introduction to the laws of thermodynamics; application primarily to ideal systems. Free energy and equilibrium. Kinetics: rate laws and mechanisms, experimental techniques. —D. Robie

Prerequisites: CHE BC 3231, Physics I (Mechanics), and Calculus II.

4 points. Lecture.

CHE BC 3253x
Structure, Bonding, and Spectroscopy

Introduction to quantum chemistry. The structure of atoms and molecules. Energy levels and spectra. —S. Chapman

Prerequisites: Physics II and Calculus II.

4 points. Lecture.

CHE BC 3254y
Methods and Applications in Physical Chemistry

Applications of thermodynamics to real systems; activities, electrochemistry. Transport properties. Kinetic theory of gases. Radiochemistry. Solids and crystallography. —L. Lessinger

Prerequisites: CHE BC 3252, 3253

4 points. Lecture.

CHE BC 3271x
Introduction to Inorganic Chemistry

Structure and reactivity of inorganic compounds: bonding, reaction mechanisms, selected main group chemistry, transition metal chemistry, organometallics, clusters, catalysis, and bioinorganic chemistry.

—E. Megehee

Prerequisite: CHE BC 3230y.

3 points. Lecture.

CHE BC 3282y
Biological Chemistry

Detailed introduction to biochemical building blocks, macromolecules, and metabolism.

Structures of amino acids, lipids, carbohydrates, nucleic acids. Protein structure, allostery, enzyme mechanisms, and kinetics. Membranes. Catabolism and anabolism with emphasis on chemical intermediates, metabolic energy, catalysis by specific enzymes. Nucleoside and polynucleotide structure. Special topic: site-directed mutagenesis and protein engineering. —A. Shinnar

Prerequisite: One year of organic chemistry, one year of biology.

3 points. Lecture.

CHE BC 3355x

Biochemistry Laboratory Techniques

Fundamental techniques used in the isolation, characterization, and study of biomolecules. Homogenization, centrifugation, solvent extraction, salt fractionation, chromatography, electrophoresis, chemical and enzymic assays, enzyme kinetics, and simple genetic cell transformation methods. —A. Shinnar

Prerequisites: One year of Organic Chemistry, one year of Biology, four semesters of Chemistry and Biology laboratory, and CHE BC 3282 or Biology-Chemistry C 3501 or Biochemistry G 4021.

5 points. Lecture. Laboratory two afternoons.

Laboratory fee: \$45.

CHE 3357x

Biochemistry Laboratory Techniques

Identical to BC 3355, but experiments are modified to be accomplished in one laboratory period per week. This course may be of particular interest to biology and chemistry majors. —A. Shinnar

Prerequisites: Same as BC 3355.

3 points. Lecture. Laboratory one afternoon.

Laboratory fee: \$35.

CHE BC 3365x

Physical Chemistry Laboratory

Experiments in kinetics, thermodynamics, and electrochemistry using instrumental methods; preparation and characterization of inorganic compounds; some computer applications. —D. Robie

Prerequisites: BC 3252 and BC 3338 or equivalent.

3 points. Lecture. Laboratory. Laboratory fee: \$35.

CHE BC 3368y

Physical Chemistry Laboratory

Experiments in various types of spectroscopy.

—E. Megehee

Prerequisites: Identical to those for BC 3365.

3 points. Lecture. Laboratory.

CHE BC 3598x, 3598y

External Problems in Chemistry

Individual research projects at other institutions.

—Staff

Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. Mandatory pass/fail grading.

Permission of the instructor (a Barnard professor who will act as liaison) is required.

4 points.

CHE BC 3599x, 3599y

Problems in Chemistry

Individual research projects at Barnard. —Staff

Prerequisites: Completion of laboratory courses

BC 3333 and BC 3338. Permission of the instructor

required.

4 points. Eight hours by arrangement.

Laboratory fee: \$35.

CHE BC 3901x-3902y

Senior Honors Thesis

Guided research in Chemistry or Biochemistry, under the sponsorship of a faculty member, leading to the senior thesis. Weekly seminar. —Staff

Enrollment restricted to seniors, by invitation of the department.

4 points. Weekly class and 8 hours research TBA.

SUMMER RESEARCH

A number of fellowships for summer research are available in the department. Consult individual members of the department early in the spring semester about possible projects.

OTHER COURSES

Attention is called to the following courses offered elsewhere in the University. All require at least four semesters of chemistry as prerequisites.

Biology-Chemistry BCH C 3501x Biochemistry I

4 points.

Biology-Chemistry BCH C 3512y Biochemistry II

3 points.

CHE C 3071y Introduction to Inorganic Chemistry

3 points. This course is equivalent to BC 3271x.

Chemistry CHE G 4103x Advanced Inorganic Chemistry I

4.5 points.

Chemistry CHE G 4131x Introductory Quantum Chemistry

4.5 points.

Chemistry CHE G 4147x Advanced Organic Chemistry

4.5 points.

Chemistry CHE G 4141y Organic Spectroscopy

4.5 points.

Chemistry CHE G 4231y Chemical Kinetics

4.5 points.

Biology-Chemistry BCH G 4170x
Biophysical Chemistry

4.5 points.

Chemistry CHE G 4172y
Bio-Organic Topics

4.5 points.

Chemistry CHE G 4221x
Quantum Chemistry I

4.5 points.

Chemistry CHE G 4230x
Statistical Thermodynamics

4.5 points.

Chemistry CHE W 4003y
Computational Chemistry

4.5 points. Lecture and laboratory.

216 Milbank Hall

854-4389, 8312

Professors: Helene P. Foley (Chair, 1998-99), Lydia H. Lenaghan (Chair, 1997-98)

Assistant Professor: Nancy Worman

Other officers of the University offering courses in Classics:

Professors: Roger S. Bagnall, Alan D. E. Cameron, James R. Coulter, Suzanne Said, Leonardo Tarán, James E. G. Zetzel

Visiting Professor, Autumn 1997: Jan Maarten Bremer

Associate Professors: Carmela Franklin, Deborah T. Steiner, Gareth D. Williams

Assistant Professor: James B. Rives

Assistant Professor of Modern Greek: Karen Van Dyck

Instructor in Modern Greek: Vassiliki Yiakoumaki

The objective of the department is to provide students with a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The close cooperation of Barnard and Columbia in planning and implementing the curriculum offers students a wide range of specialties from which to construct a sound and coherent program of studies according to their individual interests. All members of the Barnard department are available as advisers and should be consulted as early as possible in the planning of a major program.

Students may fulfill the foreign language requirement in Greek by completing Greek V 1201 and V 1202, or in Latin by completing Latin V 1201 and V 1202, or by completing one semester of study above Greek V 1201 and V 1202 or Latin V 1201 and V 1202, or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

The Classics Department is the beneficiary of the Matthew Alan Kramer Fund, whose principal purpose is the support of the production of plays in Ancient Greek and Latin. In recent years students of the department have produced *Antigone*, *Medea*, *Alcestis*, *Persians*, *Eumenides*, *Cyclops*, *Electra*, *Clouds*, *Trojan Women*, *Rudens*, *Helen*, *Trachiniae*, *Bacchae*, *Hippolytus*, and *Heracles*, which have not only proved satisfying in themselves, but have provided an exciting and different learning experience for the participants.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Majors in Classics or Ancient Studies are eligible to apply for admission to the program of the Rome Center for one semester, preferably in the junior year. Courses taken at the Rome Center may be used in the major and, in some cases, may be used to satisfy distribution requirements. Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open without fee to graduates of the College.

REQUIREMENTS FOR THE MAJOR IN GREEK, LATIN, AND GREEK AND LATIN

The major in Greek or Latin requires a minimum of eight courses above the elementary level.

In Greek, this would be fulfilled by taking

Greek W 4139 *Elements of Greek Prose Style*

Greek W 4105-W 4106 *History of Greek Literature*

and five others, including Greek V 3996x *Major Seminar*.

In Latin, this would be fulfilled by taking

Latin W 4139 *Elements of Latin Prose Style*

Latin W 4105-W 4106. *History of Latin Literature*
and five others, including Latin V 3996x *Major Seminar*.

Greek or Latin V 3998 may be substituted for a semester of the survey or for elements of prose style, but students planning to go on to graduate study in classics are strongly urged to take both semesters of W 4105, W 4106.

In addition, two semesters of ancient history appropriate to the major are required. For one of these, however, a relevant course in ancient art, classical civilization or literature, ancient philosophy, or religion may be substituted.

Majors in Latin, especially those who have begun their study in high school, are strongly advised to take at least two semesters of Greek.

A student may elect to major in both Greek and Latin by completing the major requirements in one language and five courses above the elementary level in the other.

Note: For the requirements for the major in **Ancient Studies**, see Ancient Studies.

REQUIREMENTS FOR THE MINOR

The minor in Greek, Latin, or Modern Greek requires five courses above the elementary level.

COURSES OF INSTRUCTION

CLASSICS IN TRANSLATION

There are no prerequisites for the Classical Literature or Classical Civilization courses unless specially noted.

Classical Literature **CLL V 3123**
Greek Drama and Its Influences

Evolution of various types of tragedy and comedy from the 5th century B.C.E. in Athens to the 1st century C.E. in Rome; relation of these forms to later European dramatic forms; theories of comedy and tragedy, including those of Aristotle; the production of plays.
3 points. III H

Classical Literature **CLL V 3132x**
Classical Myth

Survey of major myths from the ancient Near East to the advent of Christianity, with emphasis upon the content and treatment of myths in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid). —S. Saïd
3 points. III H

Classical Literature **CLL V 3135y**
The Ancient Novel

The evolution of the Greek and Roman novel and its place within the literary canon; particular attention to principles of narrative and the ideological function of prose fiction. Petronius, Apuleius, Lucian, Heliodorus, Achilles Tatius, Longus; Acts of the Apostles and saints' lives. —A. Cameron
3 points. III H

Classical Literature **CLL W 4300y**
The Classical Tradition

Social, political, intellectual, and religious contexts in which epic, lyric, tragic, and comic poetry originally developed in Greece; Roman adaptations and their influence on modern authors. —N. Worman
3 points. III H

Classical Literature **CLL W 4100**
The Reception of Antiquity

Introduction to the heritage of classical antiquity, primarily Greece, in later European culture. Translation, iconography, the history of classical scholarship, architectural and artistic manifestations of the classical tradition, Greek tragedy on stage and on film, the images of Athens and Sparta. —S. Saïd
3 points. III H

Classical Literature **CLL W 4115**
Tragedy and Performance

An intensive study of issues relating to the interpretation and performance of Greek and Roman tragedy, including modern stage versions. Special consideration will be given to staging, the changing role of actors and chorus, Aristotle's *Poetics*, and the reception of ancient tragedy, as well as to social and philosophical issues, including gender conflict. —H. Foley
3 points. Offered in 1998-99. I H

Classical Civilization CLC V 3147

The World of Late Antiquity

The social, economic, and religious history of the Roman world from the second to the early seventh century A.D. —A. Cameron

3 points.

III H

Classical Literature CLL V 3150x

The Elektra Theme

A comparative study of the three Greek tragedians in which Elektra is a key figure and of a number of works (dramatic, narrative, lyrical) in which the Elektra theme has been creatively adapted.

Explores how a young woman shows her mettle in a situation of conflicting loyalties. —J. Bremer

3 points.

I H

Classical Civilization CLC W4110

Gender and Sexuality in Ancient Greece

Examination of the ways in which gender and sexuality are constructed in ancient Greek society and represented in literature and art, with attention to scientific theory, ritual practice, and philosophical speculation. Topics include conceptions of the body, erotic and homoerotic literature and practice, legal constraints, pornography, rape, and prostitution. —H. Foley

Sophomore standing or permission of the instructor.

3 points.

I H

Classical Civilization CLC W4100y

The Handwritten Book

How books were made in antiquity and the Middle Ages, covering the physical characteristics of handwritten books (scripts, illustrations and illuminations, bindings, writing materials), the context in which books were created (monastic scriptorium, cathedral library, the early bookshops), and the audience which determined their use and contents. —C. Franklin

3 points.

III H

Classical Civilization CLC V 3158x

Women in Antiquity

The role of women in ancient Greek and Latin literature; the portrayal of women in literature as opposed to their actual social status; male and female in ancient Mediterranean cosmologies; readings from ancient epics, lyric drama, history, historical documents, medical texts, oratory, and philosophy, as well as from contemporary sociological and anthropological works that help to analyze the origins of the Western attitude toward women. —H. Foley

3 points. Offered in 1998-99.

I H

Classical Civilization CLC V 3160y

The Age of Augustus

An exploration of the interplay between literature and its contexts, political, social, and intellectual. Literary texts to be discussed include Vergil, Horace, Livy, and Ovid. Topics to be discussed (in addition to the analysis of the works) will include literary patronage and the status of the poet, the Augustan moral and religious revival, political propaganda, and political opposition.

3 points.

III H

Classical Civilization CLC V 3162

Ancient Law

Greek and Roman legal systems; archaic law in its social context; philosophy of law; development of private law in Rome. —J. Zetzel

3 points.

III S

Classical Civilization CLC V 3164

The Emperor Nero and the Roman World

Literature and society in the reign of Nero: the impact of the emperor on life and the arts.

Readings mainly in primary sources, including Petronius, Seneca, and Tacitus.

3 points.

III H

Classical Civilization CLC W 3143y

Classical and Biblical Historiography

A comparative study of three great bodies of historical writing: the works of Herodotus and Thucydides and the large-scale historical narratives of the Hebrew Bible. The chief focus will be on different conceptions of freedom and the possible role these conceptions play in reflections on historical causality. —J. Coulter

3 points. Offered in 1997-98.

III H

Classical Civilization CLC W 4120x

Education and Literacy in the Greco-Roman World

A study of the importance and limits of literacy and of the characteristics and changes in education in the Greek and Roman world, based on literary and archaeological sources, the anecdotal tradition, and the school exercises of Greco-Roman Egypt. —R. Cribiore

3 points.

I H

Classical Civilization CLC W 4200

Egypt and Hellenism

The encounter of the three-millenia-old civilization of Egypt with domination by foreign powers: Macedonia, Greece, and Rome. Focus on colonial power structures, definition and functioning of ethnicity, interaction of cultures and languages, class and status, changing gender

relations. —R. Bagnall
Prerequisite: Permission of the instructor.
 3 points. I H

Ancient Studies ANC W 4000x
Introduction to Ancient Studies

This seminar is an introduction to the interdisciplinary study of the ancient world; the topic will vary from year to year. The topic for 1997-98 will be the society, government, and culture of late antiquity (ca. 275-565 C.E.). Required of students entering the MALS Program in Ancient Studies and open to other graduate and undergraduate students with permission of the instructor. —A. Cameron
 3 points. III H

GREEK LANGUAGE AND LITERATURE

GRE V 1101x-V 1102y
Elementary Full-Year Course

Grammar, composition, and reading. In Greek 1102 a dialogue of Plato, generally the *Apology*, will be read. —R. Bagnall
1101 is prerequisite to 1102. No credit is given for 1101 unless 1102 is completed.
 4 points.

GRE V 1121x, y
Intensive Elementary Course

This course is designed to cover all of Greek grammar and syntax in one semester in order to prepare a student to enter third-semester Greek. —C. Helms, D. Hecht
 4 points.

GRE V 1201x
Greek Literature: Prose and Poetry

Selections from Attic prose and early elegiac poetry. There will be weekly assignments to review forms and syntax. —L. Tarán
Prerequisite: V 1101-V 1102 or V 1121.
 4 points. H

GRE V 1202y
Selections from Homer

Detailed grammatical and literary study of several books of the *Odyssey* and introduction to the techniques of oral poetry, to the Homeric hexameter, and to the historical background of Homer. —N. Worman
Prerequisite: V 1101-V 1102 or V 1121, or permission of the instructor.
 4 points. H

GRE V 1203
New Testament

Prerequisite: V 1101-V 1102 or V 1121.
 4 points. Not offered in 1997-99. H

GRE V 1221
Intensive Intermediate Greek

Covers the content of Greek V 1201 and 1202 in one term. Readings from Lysias, early elegiac and lyric poetry, and the *Iliad*. —Instructor TBA.
Prerequisite: V 1101-V 1102, or V 1121.
 4 points. H

GRE V 3309y
Selections from Greek Literature: Prose

Contents of this course change from year to year; it may be taken in consecutive years. Topic for 1997-98: Plato's *Protagoras*. A close study of the dialogue with special attention to literary, philosophical, and rhetorical questions. —L. Tarán
Prerequisites: Greek V 1201-1202, or their equivalents.
 3 points. H

GRE V 3310
Selections from Greek Literature: Poetry

Content of course changes each year; it may be taken in consecutive years. Topic for 1997-98: Selections from Homer's *Iliad*. —J. Bremer
Prerequisite: Greek V 1201-1202, or their equivalents.
 3 points. H

GRE V 3996x
Major Seminar

Required for all majors in classics and classical studies. The topic will change from year to year but will always be broad enough to accommodate students in the languages as well as those in the interdisciplinary major. Topic for 1997-98: Representations of time in antiquity. In preparation for the millenium, this seminar explores Greek and Roman philosophical definitions of time; the psychological implications of the shortness of life; the theme of time in ancient literary texts, with emphasis on the *Iliad*, Vergil's *Aeneid*, Horace's *Odes*, and Ovid's *Metamorphoses* and *Fasti*; the ways in which historians manipulate time in structuring narratives. —G. Williams
Prerequisites: Junior standing.
 4 points. H

GRE V 3997x, GRE V 3997y
Directed Reading

To be tested by a series of short papers, one long paper, or an oral or written examination. —Staff
Permission of the department chair required.
 3 points.

GRE V 3998x, GRE V 3998y
Supervised Research in Greek Literature

Program of research in Greek literature, with the composition of a paper embodying results. —Staff
Permission of the department chair required.
 3 points.

GRE W 4009

Selections from Greek Literature: Prose

Content of course change from year to year; it may be taken in consecutive years. Topic for 1997-98: Selected orations of Gorgias, Antiphon, Lysias, Isocrates, and Demosthenes. Special attention will be paid to various aspects of *pistis*, the "art" of creating belief in the truth of an oratorical claim. Students will also study Aristotle's *Rhetoric* in translation. —J. Coulter
Prerequisites: GRE V 1201-1202, or their equivalents.
3 points. H

GRE W 4010

Selections from Greek Literature: Poetry

Content of course changes from year to year; it may be taken in consecutive years. Topic for 1997-98: Greek lyric poetry. —S. Saïd
Prerequisites: GRE V 1201-1202, or their equivalents.
3 points. H

GRE W 4150y

The Greek Language

An introduction to the philosophy and morphology of the Greek language. Includes the study of vowels and consonants, noun and verb formation, and characteristics of the Greek dialects. These topics will be examined in the light of the relation of Greek to Proto-Indo-European and the comparison of Greek forms to other PIE languages, demonstrating how the comparative method in historical linguistics accounts for the evolution of the Greek language. —N. Worman
3 points. H

GRE W 4106x, 4105y

History of Greek Literature

Lectures based on extensive readings in Greek literature from Homer to the 4th century C.E. —L. Tarán, J. Coulter
Prerequisite: At least two terms of Greek beyond V 1201, V 1202.
4 points. H

GRE W 4139x

Elements of Greek Prose Style

Intensive review of Greek syntax. Writing of sentences and connected passages in Greek. —L. Tarán
Prerequisite: At least four terms of Greek, or the equivalent.
3 points.

LATIN LANGUAGE AND LITERATURE

LAT V 1101x-1102y; 1102x, 1101y

Elementary Full-Year Course

V 1101: Grammar, composition, and reading.
V 1102: Complete review of grammar and syntax; emphasis on representative readings. —Staff
V 1101 is normally prerequisite to V 1102. V 1102 may be taken without V 1101 by permission of the instructor. No credit is given for V 1101 until V 1102 is completed.
4 points.

LAT V 1121x, y

Intensive Elementary Course

This course is designed to cover all of Latin grammar and syntax in one semester in order to prepare the student to enter third-semester Latin. —x: B. DeSmidt; y: J. Himwich
4 points.

LAT V 1201x, y

Latin Literature: Prose

Selections from Cicero or Sallust. —A. Cameron, L. Lenaghan
Prerequisite: V 1101-V 1102 or 2-3 years of high school Latin.
4 points. H

LAT V 1202x, y

Latin Literature: Poetry

Selections from Vergil, *Aeneid*, or Ovid, *Metamorphoses*. —Staff
Prerequisite: V 1101-V 1102 or 2-3 years high school Latin.
4 points. H

LAT V 1221y

Intensive Intermediate Latin

Prerequisite: LAT V 1101-1102, or the equivalent.
4 points. H

LAT V 3012x

Lyric Poetry

Selections from Catullus's polymetric poems and epigrams and from Horace's *Odes* and *Epodes*. Combines literary analysis with work in grammar and metrics. —N. Worman
Prerequisite: V 1201, 1202, or four years of high school Latin.
3 points. H

LAT V 3033y

Medieval Literature

Survey of representative late Latin and medieval texts; readings from the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography. —C. Franklin
Prerequisite: Three semesters of college Latin or

permission of the instructor.
3 points.

H

LAT V 3309

Selections from Latin Literature: Prose

Content of course changes from year to year; it may be taken for credit in consecutive years. Topic for 1997-98: Cicero. Reading of several major political and courtroom orations in the original together with readings of other speeches and philosophical works in translation. —L. Lenaghan
Prerequisite: LAT V 3012 or the equivalent.
3 points.

H

LAT V 3310

Selections from Latin Literature: Poetry

Content of course changes from year to year; it may be taken for credit in consecutive years. Topic for 1997-98: Lucretius. Selections from Books 1 and 3. —L. Lenaghan
Prerequisite: LAT V 3012 or the equivalent.
3 points.

H

LAT W 4009

Selections from Latin Literature: Prose

Content of course changes from year to year; it may be taken in consecutive years. Topic for 1997-98: Pliny. A close reading of Pliny's letters. —A. Cameron
Prerequisite: LAT V 3012 or the equivalent.
3 points.

H

LAT W 4010

Selections from Latin Literature: Poetry

Content of course changes each year; it may be taken in consecutive years. Topic for 1997-98: Vergil, *Aeneid*. Reading of seven books in the most original, and the remainder in translation. An introduction to modern critical approaches to Vergil. —Instructor TBA.
Prerequisite: LAT V 3012 or the equivalent.
3 points.

H

LAT V 3996x

Major Seminar

Required for all majors in classics and classical studies. The topic will change from year to year but will always be broad enough to accommodate students in the languages as well as those in the interdisciplinary major. Topic for 1997-98: Representations of time in antiquity. In preparation for the millenium, explores Greek and Roman philosophical definitions of time; the psychological implications of the shortness of life; the theme of time in ancient literary texts, with emphasis on the *Iliad*, Vergil's *Aeneid*, Horace's *Odes*, and Ovid's *Metamorphoses* and

Fasti; the ways in which historians manipulate time in structuring narratives. —G. Williams
Prerequisite: Junior standing.
4 points.

LAT V 3997x, y

Directed Reading

To be tested by a series of short papers, one long paper, or an oral or written examination. —Staff
Permission of the department chair required.
3 points.

LAT V 3998x, y

Supervised Research in Latin Literature

A program of research in Latin literature with the composition of a paper embodying results. —Staff
Permission of the department chair required.
3 points.

LAT W 4105x, 4106y

History of Latin Literature

Lectures based on extensive readings in Latin literature from the beginning to the fourth century C.E. —L. Lenaghan, G. Williams
Prerequisite: At least two terms of Latin beyond V 3012.
4 points.

LAT W 4139x

Elements of Latin Prose Style

Intensive review of Latin syntax. Writing of sentences and connected passages in Latin. —J. Rives
Prerequisite: At least four terms of Latin or the equivalent.
3 points.

LAT W 4150

The Latin Language

An introduction to the development of the Latin language, including historical phonology and morphology, archaic Latin, the development of literary Latin, and colloquial and vulgar Latin texts. —J. Zetzel
Prerequisite: LAT V 3012 or the equivalent.
3 points.

LAT W 4152x

Medieval Latin

Content of this course changes from year to year; it may be taken in consecutive years. Topic for 1997-98: Bede's works (history, hagiography, exegesis) with consideration of earlier material. —C. Franklin
Prerequisite: Permission of the instructor.
3 points.

H

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department chair and the major adviser. The courses are described in the *Bulletin of the Graduate School of Arts and Sciences*.

MODERN GREEK LANGUAGE AND LITERATURE

MGR V 1101x-V 1102y **Elementary Full-Year Course**

Introduction to modern Greek language and culture. Emphasis on both speaking and writing; basic grammar and syntax; cross-cultural analysis. —V. Yiakoumaki

No credit is given for V 1101 until V 1102 is completed.
4 points.

MGR V 1201x **Intermediate Course, I**

Emphasis on both speaking and writing; more complex grammar and syntax; a variety of readings including short selections from newspapers and contemporary literature. —V. Yiakoumaki
Prerequisite: MGR V 1101-V 1102 or the equivalent.
3 points.

MGR V 1202y **Intermediate Course, II**

Emphasis on both speaking and writing; more complex syntax; a variety of readings including short selections from newspapers and contemporary literature. —Instructor TBA.
Prerequisite: MGR V 1201 or permission of the instructor.
4 points.

MGR V 1310y **Modern Greek for the Bilingual Speaker**

—Instructor TBA.
4 points.

MGR V 3997x, 3998y **Independent Study**

The course of study and amount of credit will be determined by the instructor in consultation with students. Independent study is designed for students writing a senior thesis or doing advanced research on Greek or Greek-American topics. —K. Van Dyck
1-4 points.

MGR V 3120y **The Social Function of the Short Story**

The development and evolution of the short story in Greece, with particular attention to the relation between social structures (the homeland, marriage, sacrifice) and narrative techniques (ethografia,

travel writing, etc.). Authors include Karkaritsas, Theotokis, Tsirkas, and Hadzis. —Instructor TBA.
Prerequisite: MGR V 1201 or V 1310 or the equivalent.
3 points.

MGR V 3305 **Writing and Censorship**

Literary texts connected to the Greek military dictatorship of 1967-74, with emphasis on the use and functions of parody. Readings include speeches, resistance songs, and the poetry of Ritsos and Seferis, as well as fiction, cartoons, and newspaper articles. —K. Van Dyck
Prerequisite: MGR V 1201 or V 1310 or the equivalent.
3 points.

MGR V 3306 **The Making of Modern Greek Poetry**

An examination of modern Greek poetry from the perspective of canon formation, oral and written culture, and literature as a national institution.
Prerequisite: MGR V 1201 or V 1310 or the equivalent.
3 points.

MGR V 3310x **Myth, History, and the Modern Greek Novel**

Analysis of the way Modern Greek writers have reworked myth and the classical tradition in prose. Particular attention to the importance of myth and history in the construction of the Greek novel. Authors include Roidis, Papadiamandis, Myrivilis, Kazantzakis, and Galanski.
Prerequisite: MGR V 1201 or V 1310 or the equivalent.
3 points. Offered in 1997-98.

MGR V 3400 **Diaspora, Tradition, and the Greek-American Experience**

Exploration of the Greek-American experience in personal memoirs, novels, poetry, travel literature, performance art, and films. Particular attention will be paid to how this literature by and about Greeks in America can provide alternative ways of thinking about diaspora and translation. Authors include Broumas, Gage, Haviaras, Kazan, and Selz. —K. Van Dyck
4 points.

III H

For courses in Byzantine studies, see listings in the Religion Department for Orthodox Christianity and Demonology, Magic and Miracles in Byzantine Hagiography; for Byzantine history, see History Department listings.

COMPARATIVE LITERATURE

226B Milbank Hall

854-4317

The program is supervised by the Committee on Comparative Literature.

Professors: Helene Foley (Classics, Co-chair), Richard F. Gustafson (Slavic, Co-chair), Marcia Welles (Spanish)

Associate Professors: Christopher Baswell (English), Irene Bloom (Asian and Middle Eastern Cultures), Michael Levine (German), Catharine Nepomnyashchy (Slavic)

Assistant Professors: Antonella Ansani (Italian), Peter T. Connor (French), Ross Hamilton (English), Nancy Worman (Classics)

Advisory Board: Elizabeth Dalton (English), Claudine Frank (French), Serge Gavronsky (French), Maire Jaanus (English), Lydia Lenaghan (Classics), Michael Levine (German), Mirella Servodidio (Spanish)

The program enables the student to pursue the study of at least two literatures in two different languages and to explore the possibilities and methods of literary study both historically and across national boundaries. In consultation with her adviser, the student will shape a program that will give her a firm foundation in her two central literatures and in one major period, genre, theme, or theoretical issue.

REQUIREMENTS FOR THE MAJOR

To enter the program a student must normally have completed the required sequence necessary for entry into the advance literature courses of her major program. This varies from language to language; students should consult the chair. Each student, after consultation with the chair, chooses an adviser from one of her two literature departments. This adviser guides her in developing a sequence of courses appropriate for her goals in the major. All students are required to take Comparative Literature BC 3001 and 14 courses normally to be chosen from the following categories:

One course in appropriate classical texts chosen from The Classical Tradition (CLL W 4300), Introduction to the Hebrew Bible (REL V 3201), Introduction to the New Testament (REL V 3202), for those specializing in languages and literature in the Western tradition; Asian Humanities (AHU V 3399 or V 3400), for those specializing in languages and literatures in Eastern traditions; or other courses with approval of the adviser.

One course in literary theory, such as ENG BC 3194, FRE BC 3048 (x or y), CPLT C 3114, C 3415, LIT G 4002, 4003.

Three courses from **each of two** literary traditions studied in the original languages. Foreign literature courses must be beyond the introductory level.

Five elected courses in literature or literary theory (studied in the original or in translation) related to the student's individual program.

One course, either an appropriate seminar or a tutorial, for the writing of a senior thesis.

The Senior Thesis must deal with material from at least the two central literatures in the student's major. In addition this thesis must treat, at least in part, the one period, genre, theme, or theoretical issue that has shaped the student's program. The choice of topic for this senior essay and the appointment of a second adviser are determined in consultation with the area adviser and the chair of the program. A detailed memorandum on planning the major is available from the chair(s).

Students who wish to major in Comparative Literature, but who for valid reasons wish to pursue a program at variance with the above model, should consult the chair.

COURSES OF INSTRUCTION

CPL BC 3001**Introduction to Comparative Literature: Representation and Encounter**

Introduction to the study of literature from a comparative and cross-disciplinary perspective. Readings will be selected to promote reflection on such topics as the relation of literature to the other arts; nationalism and literature; international literary movements; post-colonial literature; gender and literature; and issues of authorship, influence, originality, and intertextuality. —P. Connor
Prerequisite: Sophomore standing or the equivalent, or permission of the instructor.

3 points.

I H

CPL BC 3102**Getting Personal: Autobiography, Psychoanalysis, and Feminist Theory**

An examination of the way feminist writing has sought to revise the genres of autobiography, confession, and testimony. Through readings of works by Rich, Woolf, Djubar, Suleri, Kaysen, Augustine, Rousseau, Ovid, Benstock, de Man, and others. Explores the (indirect) ways in which we endeavor to engender, access, and tell our stories—stories which in fundamental ways may not be wholly our own. —M. Levine

3 points.

III H

CPL BC 3103y**Holocaust Literature and Film: The Limits of Realism**

An exploration of the strengths and weaknesses of realistic modes of depiction in literature and film of the Holocaust. The concepts of realism, experience, survival, and testimony will be discussed. Questions of narrative form, the impact of technology, and issues surrounding “postmodernism” will also enter. Readings of texts by Spiegelman, Celan, Perec, Levi, and Wiesel, as well as screenings of video testimony and films by Lanzmann, Spielberg, and Resnais. —M. Levine

3 points.

III H

CPL BC 3106x**Genius and Madness**

An exploration of the intersection between lunacy, talent and inspiration as it is thematized in artistic and theoretical works from the late 18th century to the present. Texts by Kant, Schopenhauer, Nietzsche, Foucault, Büchner, Hölderlin, Poe, Kleist, Bernhard, Conrad, Gilman, and Mann. Films by Herzog, Blank, and Coppola.

—M. Levine

3 points.

ENG BC 3194x,**Critical and Theoretical Perspectives on Literature****1. A History of Criticism***Offered in 1997-98.*

H

2. Literary Theory*Offered in 1998-99.*

H

3. Psychoanalytical Approaches to Literature*Offered in 1997-98.*

H

4. Postmodern Texts and Theory*Offered in 1997-98.*

H

CPS BC 3010y**Picaresque Narratives: The Discourse of Disorder (In English)**

An investigation of the structures and ideology of the picaresque, with emphasis on the relationship between genre and gender, writing and authority. Readings include Petronius and Apuleius, the *Lazarillo de Tormes* and Francisco de Quevedo's *The Swindler*, Daniel Defoe's *Moll Flanders*, Kathy Acker's *Don Quixote*, and Isabel Allende's *Eva Luna*. —M. Welles

3 points. *Offered in 1997-98.*

III H

CPL BC 3999x,y**Independent Research**

Independent research, primarily for the senior essay, directed by a chosen faculty adviser and with the chair's permission. —Staff

4 points.

Recommended Courses of Related Interest

(See relevant department listings in Asian and Middle Eastern Cultures, Classics, English, French, German, Italian, Slavic Languages, and Spanish for details, as well as additional literature courses in translation.)

*Asian Humanities AHU V 3399, V 3400**Colloquium on Major Texts**Asian Humanities AHU V 3830x Colloquium on Modern East Asian Texts**Asian Humanities AHU W 4310x Colloquium on Modern South Asian Texts**Classical Literature CLL V 3132x Classical Myth**Classical Literature CLL V 3135 The Ancient Novel**Classical Literature CLL W 4100 The Reception of Antiquity**Classical Literature CLL V 4115 Tragedy and Performance**Classical Literature CLL W 4300y The Classical Tradition**English ENG BC 3158 Medieval Literature**English ENG BC 3186 Modern Drama*

English ENG BC 3187 American Writers and Their Foreign Counterparts
English ENG BC 3190 Global Literature in English
English ENG BC 3997
 1. Epic and Romance ('97)
 2. Wit and Humor in the Renaissance ('97)
 3. Studies in Tragedy: The Death of the Hero ('98)
English ENG BC 3998 2. Literature and Love
English ENG BC 3140
 1. Renaissance Women Writers
 2. Introduction to Film and Film Theory
English ENG BC 3176 The Romantic Era
English/Religion ENR BC 3810 Literary Approaches to the Bible
French Literature FRE BC 3047 French and Francophone Cultures
 9. Childhood Remembered
French Literature FRE BC 3049 France on Film
French Literature FRE BC 3050 Still Life: Poetic Life
French Literature FRE BC 3053 Seminar in Translation
German Literature GER BC 3029 Literature and the Uncanny
German Literature GER BC 3061 Romanticism
German Literature GER BC 3035 Media Stories
Italian Literature ITA W 4200 The Italian Fairy Tale
Russian Literature RUS W 4010 Russian Women: Myth and Reality
Spanish Literature SPA BC 3203 20th-Century Women Poets of the Americas: Kindred Voices
Theatre THR BC 2001 Introduction to World Theatre
Theatre THR BC 3150 Ritual and Performance,
Theatre THR BC 3151 Performance and Society,
Theatre THR BC 3152 Asian Performance
Theatre THR BC 3166 Drama, Theatre and Theory
Theatre THR BC 3143 Drama and Film
Theatre THR BC 3831 Japanese Theatre: Gender and Performance

Department Representative: Kathleen McKeown, 722 CEPSR, 939-7118

Professors: Alfred V. Aho (Chair), Theodore R. Bashkow (Emeritus), Zvi Galil, Jonathan L. Gross, Shree K. Nayar, Joseph F. Traub, Stephen H. Unger, Henryk Wozniakowski, Yechiam Yemini

Associate Professors: Peter K. Allen, Steven K. Feiner, Gail E. Kaiser, John R. Kender, Kathleen R. McKeown, Kenneth A. Ross, Henning J. Schulzrinne, Salvatore J. Stolfo

Assistant Professors: Mukesh Dalal, Leana Golubchik, Steven M. Nowick

Lecturers: Matt I. Greenwood, Michael K. van Biema

Adjunct Lecturers: David Bantz, Judith Klavans, Rebecca Passoneau, George Wolberg

Computer science is the study of how to communicate and transform information. Developments in the field over the past few decades have profoundly changed society, and this effect is likely to accelerate in the future. Information processing techniques are being applied increasingly in the fields of medicine, business, law, science, and finance. The goal of the theoretical side of computer science is to characterize the inherent complexity of computations, including the issue of what problems are solvable. The goal of the applied side of the field is to design cost-effective computer systems that are easy and pleasant to use, including the possibility of “intelligent” systems that mimic some aspects of human behavior.

The bachelor of arts degree in Computer Science encourages students to obtain broad exposure to the arts, humanities, and social sciences while at the same time providing them with the appropriate Computer Science background necessary for graduate study or a professional career. Computers have an impact on nearly all areas of human endeavor, so the department also offers several courses intended for students who plan a Computer Science major or concentration.

PROGRAM OVERVIEW

The Computer Science major offers maximum flexibility by providing students with a range of options for specializing their degree programs. Students study a common core of fundamental topics, supplemented by a “track” that identifies specific areas for deeper study. The *theory track* prepares students for advanced work in fundamental theoretical and mathematical aspects of computing, including analysis of algorithms, scientific computing, and complexity of problems. The *computer systems track* prepares students for careers in the computer industry as well as advanced study in such areas as software engineering, operating systems, programming languages, user interfaces, and computer architecture. The *intelligent systems track* provides specialization for students interested in artificial intelligence, natural language processing, computer vision, and robotics. A *self-defined track* is available to students who wish to pursue their own courses of study under the guidance of a faculty adviser. A student planning a self-defined track should be aware that one additional Computer Science course is required to complete this option.

Academic computing needs are met by University computing facilities, which include a variety of networked workstations, such as SUN, HP, and NeXT machines. Students can also work in a PC or MAC environment. Qualified majors often serve as consultants at the Computer Center.

INTRODUCTORY COURSES

There are several different introductory courses in computer programming. Students may elect only one of them for degree credit. **The only acceptable introductory course for the**

major is CSC W 1007. (A minimum score of 11 on the Basic Math Skills test is required for admissions to CSC W 1007 or any CSC course except W 1001.) Virtually all students should start with W 1007 *Introduction to Computer Science*, even if they come with advanced standing. By taking an introductory course early in their college years, non-majors are able to use the computers more effectively in their upper-level studies in other departments and majors can more easily complete the requirements.

After CSC W 1007, the student should work on completing the remaining 5 courses of the CSC core. CSC W 1007 should be followed by W 3202 *Discrete Mathematics* and W 3139 *Data Structures and Algorithms*. Following that, students should take CSC W 3824 *Computer Organization*, W 3261 *Theory of Computation*, and W 3156 *Software Engineering*. These 3 courses can be taken in any order the student finds convenient. On completing the core, the student is now prepared to decide which track to take.

The primary programming language for the undergraduate majors is C. This is taught in CSC W 1007 and is heavily used thereafter. LISP is used for many courses in the Intelligent Systems track. Students majoring or minoring in Computer Science should take CSC W 1007 and W 3139, rather than CSC W 1003 and W 3131.

REQUIREMENTS FOR THE MAJOR

Students who plan to major in Computer Science should see the Department Representative by the start of the sophomore year.

COURSES: 40 or 43 points. Required CSC courses, 19 points: CSC W 1007, W 3139, W 3156, W 3203, W 3261, W 3824. Required mathematics course, 3 points: one semester of calculus. Each student must also fulfill the track elective requirement by selecting either a 12-point “area track” or the 15-point “self-defined track” option. Supplemental elective requirement, 6 points: any 6 points chosen from W 3823, W 3902, W 3998, or courses numbered 4000-level or higher beyond the track selection.

THEORY TRACK, 12 points: for students interested in theoretical aspects of computer science, including algorithmic analysis, problem complexity, and computational modeling: the three courses CSC W 4231, W 4236, W 4241, and either CSC W 4203 or W 4205.

COMPUTER SYSTEMS TRACK, 12 points: for students interested in the design and implementation of software and/or hardware systems; four CSC courses numbered CSC W 41xx, W 38xx, or W 48xx, at least one of which is W 41xx and at least one of which is either W 38xx or W 48xx. (CSC/Phil W 4801 and CSC/Phil W 4802 are not acceptable in this track.)

INTELLIGENT SYSTEMS TRACK, 12 points: for students interested in the design and implementation of systems that are capable of modifying their own behavior or of providing a human-like interface: either four of the courses (several of these will be offered each year) W 4701, W 4705, W 4721, W 4725, W 4731, W 4733, and W 4771, or three of those courses and one additional course from among W 4111, W 4160, W 4999: *Computing and the Humanities*, W4165, and W4501.

N.B.: Occasionally a section of CSC W 4995 and/or W 4996 will qualify as a substitute within a track, if the relevant track adviser approves.

SELF-DEFINED PROGRAM OPTION, 15 points: any 15 points chosen from CSC W 3823 or those numbered at the 4000-level (except CSC W 4901), for which the student is able to obtain the support of a CSC faculty member willing to serve as that student’s program sponsor and adviser. Finding such a sponsor/adviser is the responsibility of the student.

Note: A second semester of calculus is prerequisite to some courses in some tracks. It is also a typical admissions requirement for graduate degree programs in Computer Science and for some forms of professional education, including but not limited to medicine and business.

REQUIREMENTS FOR THE MINOR

Courses: 22 points. Required CSC courses, 19 points: CSC W 1007, W 3203, W 3139, W 3156, W 3261, and W 3824; plus any 3 points chosen from CSC W 3823, W 3902, W 3998, or courses numbered 4000-level or higher. Complete descriptions and course listings are available at <http://www.cs.columbia.edu> or in the Computer Science Department.

Departmental Representatives

Professor Kathleen McKeown, 722 Schapiro (939-7118, or kathy@cs.columbia.edu), for all Barnard students. Melbourne Francis, Academic Records Administrator, 450 Computer Science Building, (x42426 or 939-7003, or mel@cs.columbia.edu).

Office hours will be posted at 450 Computer Science Building (939-7000). Students may send questions via electronic mail.

COURSES OF INSTRUCTION

CSC W 1001x, y **Introduction to Computers**

Introductory course in computer programming intended primarily for non-majors and targeted at humanities students. Focuses on the use of computers for communications and for problem solving. Applications will be drawn from the humanities. Covers the Internet and how to access, use and contribute to the resources it contains; the use of existing tools in various situations requiring problem solving; and computer programming, starting from a problem or task and arriving at a program which provides a solution. Scheme, a dialect of LISP. —Instructor TBA. 3 points.

CSC W 1003x, y
Introduction to Computer Programming in C
Intended primarily for engineering students. General introduction to computer programming. Structured program design. C. —Instructor TBA. 3 points.

CSC W 1005x, y
Introduction to Computer Programming in FORTRAN
Intended primarily for engineering students. General introduction to computer programming, with engineering applications. Structured program design. FORTRAN. —Instructor TBA. 3 points.

CSC W 1007x, y
Introduction to Computer Science
An honors-level introduction to computing, intended primarily for students considering a major in computer science. The structure and interpretation of computer programs. Building

abstractions with data and procedures. Taught in C. —Instructor TBA. 3 points.

CSC W 3101x, y
Programming Languages
Introduction to a programming language. Each section is devoted to a specific language. Intended only for those who are already fluent in at least one programming language. Sections may meet for one hour per week for the whole term or for three hours per week for a third of the term. May be repeated for credit if different languages are involved. —Instructor TBA. 1 point.

CSC W 3131x, y
Data Structures in C
Data types and structures: arrays, stacks, singly and doubly linked lists, queues, trees, sets, and graphs. Programming techniques for processing such structures: sorting and searching, hashing, and garbage collection. Storage management. Rudiments of the analysis of algorithms. Not intended for computer science majors. Taught in C. —Instructor TBA. *Prerequisite:* CSC W 1003 or knowledge of C. 3 points.

CSC W 3139x, y
Data Structures and Algorithms
A comprehensive introduction to the fundamental data structures used in computer science and the design and time-complexity of the algorithms that use these data structures. Topics include iteration, recursion, stacks, queues, lists, trees, sets, graphs, sorting, searching, and hashing. Taught in C. —x: P. Allen; y: A. Aho
Prerequisite: CSC W 1007. *Corequisite:* CSC W 3203. 4 points.

CSC W 3156x, y**Introduction to Software Engineering**

Software management, requirements analysis, human factors, functional specification, software architecture, design methods, programming for reliability and maintainability, team programming, testing methods, and configuration management, with special topics as time permits. Intensive introduction to selected UNIX tools; a substantial group programming project is required.

—x: A. Aho; y: G. Kaiser

Prerequisite: CSC W 3139 or W 3131.

3 points.

CSC W 3203x, y**Discrete Mathematics: Introduction to Combinatorics and Graph Theory**

Mathematical induction, counting arguments, permutations. Partially ordered sets, lattices. Graphs and imbeddings, generating functions, recurrence relations. Propositional calculus. —J. Gross

Prerequisite: Any introductory computer programming course. *Corequisite:* CSC W 3139.

3 points.

CSC W 3210x**Scientific Computation I**

An introduction to computation aspects of mathematical models of time varying phenomena. Both discrete and continuous models including linear and nonlinear, first order and higher order and systems of equations are included.

Theoretical and numerical aspects are emphasized. Quantitative issues such as chaos and stability are covered. Applications include genetics, finance, physical systems, computer systems, simulation, and Markov modeling. —J. Traub
Prerequisite: Two terms of calculus and proficiency in a programming language.

3 points.

CSC W 3251y**Scientific Computation II**

Covers major topics of scientific computations: properties of floating point arithmetic, numerical stability and conditioning, interpolation, integration and approximation of scalar functions, nonlinear equations, and ordinary differential equations. Covers also computational methods of linear algebra for solving systems of linear equations, linear least squares, and the eigenvalues. The computational complexity of some of these problems is discussed. The computer implementation of algorithms is stressed. —H. Wozniakowski
Prerequisites: Calculus I and II, CSC W 3210 or Mathematics E 1210 and V 3202.

3 points.

CSC W 3261y**Computability and Models of Computation**

Regular languages, finite automata, regular grammars, non-determinism, regular expressions.

Context-free language, push-down automata, context-free grammars, parsing. Turing machines, general grammars, computability, the Chomsky hierarchy, the Church-Turing thesis, other models of computation. —Instructor TBA.

Prerequisite: CSC W 3139 and W 3203.

3 points.

CSC W 3823x, y**Digital Logic**

Number representation, Boolean algebra, combinational logic, Karnaugh maps, circuit minimization, NAND and NOR logic, fault detection, implementation of gates, integrated circuits, flip-flops, latches, counters, and other basic functional circuits, sequential circuits, clocking. —S. Unger

Prerequisite: Any introductory programming course.

3 points.

CSC W 3824x, y**Computer Organization I**

Overview of computer organization and design.

A brief introduction to digital logic, performance analysis, instruction sets, RISC assembly language programming, computer arithmetic, ALU and datapath design, single-cycle and multi-cycle processor design, microprogramming, pipelining, caches and virtual memory, I/O and peripherals.

—x: S. Nowick; y: L. Golubchik

Prerequisite: CSC W 3139 (or W 3131).

3 points.

CSC W 3902x, y**Undergraduate Thesis**

An independent theoretical or experimental investigation by a BS or BA candidate of an appropriate problem in computer science carried out under the supervision of a faculty member. A formal written report is mandatory and an oral presentation may also be required. May be taken over more than one semester, in which case the grade will be deferred until all 6 points have been completed.

Prerequisite: Agreement by a faculty member to serve as thesis adviser. Consult the department for section assignment.

0-6 points.

CSC W 3998x, y**Undergraduate Projects in Computer Science**

Independent projects involving laboratory work, computer programming, analytical investigation, or engineering design. —Staff

Prerequisite: Approval by a faculty member who

agrees to supervise the work. May be repeated for credit, but not for a total of more than 3 points.
0-3 points.

CSC W 4111x, y **Database Systems**

Introduction to database systems: data modeling; logical design of relational databases; data definition and data manipulation languages; storage and indexing techniques; concurrency control; recovery; query processing; security and integrity; system administration; essentials of distributed operation. A programming project is required.

—K. Ross

Prerequisite: CSC W 3156 and W 3824, or the instructor's permission.
3 points.

CSC W 4115x **Programming Languages and Translators**

Covers language design issues; syntax; the translation process; names, locations, and values; control structures; data types; input and output; procedures and parameters; nesting and scope; definition of new data types; dynamically varying structure; applicative languages; exception handling; parallel processing; and separately compiled modules. A large language implementation project is required. —M. Dalal

Prerequisite: CSC W 3156, W 3261, and W 3824, or the instructor's permission.
3 points.

CSC W 4118x, y **Operating Systems I**

Design and implementation of operating systems. Topics include process management, process synchronization and interprocess communication, memory management, virtual memory, interrupt handling, processor scheduling, device management, I/O, and file systems. Case study of the UNIX operating system. A programming project is required. —H. Schulzrinne

Prerequisite: CSC W 3156 and W 3824, or the instructor's permission.
3 points.

CSC W 4119x, y **Computer Networks**

The design of system software to support computer networks, layered protocol architecture, and distributed operating systems. A programming project is required. —Y. Yemini

Prerequisite: CSC W 4118
3 points.

CSC W 4121x, y **Multimedia Information Systems**

Theory and practice of multimedia information systems design with emphasis on system architectures for multimedia storage servers. Topics include: media, applications, and their requirements, current storage device, interconnect, and compression technologies and technology trends and their impact on application areas, multimedia storage systems, video-on-demand servers, fault tolerance, real-time scheduling, and resource management. A programming project is required.

—L. Golubchik

Prerequisite: CSC W 3139.
3 points.

CSC W 4156x, y **Advanced Software Engineering**

Expands on W 3156 material at an advanced level assuming significant prior software development experience. Software management, requirements analysis, human factors, functional specification, software architecture, design methods, programming for reliability and maintainability, team programming, testing methods, and configuration management, with special topics as time permits. Focuses on taking a group development project from beginning to end, when possible with real "customers." —Instructor TBA.

Prerequisite: CSC W 3156 or any 4000-level CSC course that requires a substantial programming project, or the instructor's permission.
3 points.

CSC W 4160x, y **Computer Graphics**

Previous familiarity with C and UNIX is recommended. An intensive introduction to computer graphics. Graphics hardware, design of graphics packages, interaction techniques, geometric transformations, 3-D viewing and projections, raster scan conversion algorithms, image synthesis, visible surface determination, lighting and shading, representation of 3-D shapes, object modeling and hierarchy, color, and animation. Advanced topics as time permits. Emphasis is on implementation of important graphics algorithms. —S. Feiner

Prerequisite: CSC W 3139 (or W 3232) and either W 3156 (or W 3152) or W 4156.
3 points.

CSC W 4165x, y **Computational Techniques in Pixel Processing**

An intensive introduction to image processing intended for graduate students and advanced undergraduates. Topics include digital filtering

theory, image enhancement, image reconstruction, antialiasing, warping, and the state-of-the-art in special effects. These topics form the basis of high-quality rendering in computer graphics, as well as low-level processing for computer vision, remote sensing, and medical imaging. Emphasis on computational techniques for implementing useful image-processing functions. Several programming assignments aimed at reinforcing the material covered in class. —G. Wolberg

Prerequisites: CSC W 3156, W 3251 (recommended), and good working knowledge of UNIX and C.
3 points.

CSC W 4170x, y **User Interface Design**

Introduction to the theory and practice of computer user interface design, emphasizing the software design of graphical user interfaces. Topics include basic interaction devices and techniques, human factors, interaction styles, dialogue design, and software infrastructure. Design and programming projects will be required. —S. Feiner

Prerequisites: CSC W 3156.
3 points.

CSC W 4201x, y **Theory of Complexity**

Theory of computation, structure of complexity classes, computational complexity theory, feasible and infeasible computations. —Instructor TBA.

Prerequisites: CSC W 3261 or permission of the instructor.
3 points.

CSC W 4203x, y **Graph Theory**

General introduction to graph theory, emphasizing algorithms. Eulerian paths and circuits, shortest paths, trees, minimum spanning trees, the number of spanning trees, bipartite matching, vertex colorings, edge colorings, imbeddings on surfaces, enumeration. —J. Gross

Prerequisites: CSC W 3203.
3 points.

CSC W 4205x, y **Combinatorial Theory**

Permutations and combinations, generating functions, recurrence relations, the inclusion-exclusion method. Polya's enumeration methods. Other topics as time permits. —J. Gross

Prerequisites: CSC W 3203 and a course in calculus.
3 points.

CSC W 4231x, y **Analysis of Algorithms I**

A prerequisite to Computer Science E 6232.

Some of the topics described below are not covered until Computer Science E 6232. Representation and generation of combinatorial objects. Methods for the analysis of algorithms: counting and asymptotic evaluation. Analysis of sorting, searching algorithms on graphs, operations on strings, arithmetic operations, matrix operations, Fourier transformations. Models of computation: the Turing machine model, the random-access model, circuit complexity, and the VLSI model. Probabilistic algorithms.

—Instructor TBA.

Prerequisites: CSC W 3139 and W 3203.
3 points.

CSC W 4236x, y **Introduction to Computational Complexity**

Develop a quantitative theory of the resources needed for computing and the impediments to efficient computation. The models of computation considered include finite or infinite, deterministic or probabilistic, discrete or algebraic, sequential or parallel. —Instructor TBA.

3 points.

CSC W 4241x **Numerical Algorithms and Complexity I**

Modern theory and practice of computation on digital computers=2E Design and analysis of numerical analysis of numerical algorithms.

Techniques for analyzing computational complexity and errors. Solutions of nonlinear equations, polynomial equations, linear systems, interpolation, approximation, eigenvalues and eigenvectors, optimization, ordinary and partial differential equations. —Instructor TBA.

Prerequisites: Knowledge of a programming language. Some knowledge of differential equations and linear algebra is desirable.

3 points.

CSC W 4400x, y **Computers and Society**

The impact of computers on political, social, and economic processes. Evaluation of the positive and negative contributions of computers. Case studies from banking, law, medicine, and television.

Privacy and security of data banks. How society can direct the development of computer applications. —S. Unger

Prerequisites: An introductory course in computer programming.
3 points.

CSC W 4701x, y **Artificial Intelligence**

Designed to give a senior-level student in computer science a broad understanding of the basic

techniques in use today for building intelligent computer systems. State-space representations, problem reduction, means-end analysis, and-or graphs. Heuristic searching: depth-first, breadth-first, best-first, hill-climbing, divide and conquer, minimax, alpha-beta. Predicate calculus, resolution theorem proving. Horn clause theorem provers. AI systems and languages: goals and contexts. Issues of knowledge representation. Learning and concept formation. LISP programming. Other topics as time permits. —S. Stolfo
Prerequisites: CSC W 3139 and knowledge of LISP.
3 points.

CSC W 4705x, y
Natural Language Processing

An introduction to the artificial intelligence approach to human language processing. Topics such as conceptual representation, story understanding, language generation, question answering, and the relation between computer models and cognitive psychology. Computer exercises in several of these areas. —K. McKeown
Prerequisite: CSC W 3139 (or W 3137). Some prior or concurrent exposure to AI and LISP is useful.
3 points.

CSC W 4721x, y
Advanced Intelligent Systems

Focus is on current methods of implementing AI expert systems. Topics include the structure of problem-solving engines and knowledge bases for expert performance; problem taxonomies; methods to automate the acquisition of human experiential knowledge; methods to automate the explanation of problem-solving behavior; and examples of existing expert systems and their application areas. —M. Dalal
Prerequisite: CSC W 4701.
3 points.

CSC W 4725x, y
Knowledge Representation and Reasoning

General aspects of knowledge representation (KR). The two fundamental paradigms (semantic networks and frames) and illustrative systems. A selection of some advanced topics such as hybrid systems, time, action/plans, defaults, abduction, and case-based reasoning. Particular attention is paid to design tradeoffs between language expressiveness and reasoning complexity, and issues relating to the use of KR systems in larger applications. —M. Dalal
Prerequisite: CSC W 4701.
3 points.

CSC W 4731x, y
Computer Vision

The fundamentals of computer vision, viewed from an artificial intelligence perspective. Image formation. Low-level processing: edge detection, stereo, shape from shading, optical flow. Middle-level processing: line and curve aggregation, region growing, texture, image sequences. High-level processing: shape representations in two and three dimensions. Image understanding: knowledge bases, matching inference, and planning. Other topics as time permits. Course programming project required. —S. Nayar
Prerequisite: CSC W 4701 or the instructor's permission.
3 points.

CSC W 4733x, y
Computational Aspects of Robotics

—P. Allen
3 points.

CSC W 4771x, y
Machine Learning

Course material: approaches, strategies, and algorithms for machine learning and knowledge acquisition. Topics include generalization and inductive inference, statistical pattern recognition, knowledge discovery in databases, connectionist learning, and genetic algorithms. Algorithms include version spaces, ID3, CART, and Bayesian classifiers; students are expected to implement several algorithms in LISP (preferred) or C. —K. McKeown
Prerequisite: CSC W 4701.
3 points.

CSC W 4825x
Digital Systems Design

Combination logic design: symmetric, iterative, and unate functions. Techniques for design of NAND or NOR logic. Logic design using gate arrays and PLAs. CAD (computer-aided design) methods for logic synthesis. Clocking schemes for 1- and 2-phase systems. Fault checking: LSSD (level-sensitive scan design), signature testing. CAD languages for top-down design of large systems. Simulation of digital systems. —S. Unger
Prerequisite: CSC W 3824.
3 points.

CSC W 4861x, y
Computer-Aided Design of Digital Systems

Introduction to modern CAD tools, algorithms, and applications. Topics include: exact and heuristic 2-level logic minimization, multi-level logic optimization, Boolean manipulation, unate and

binate covering algorithms, the unate recursive paradigm, sequential optimization, binary decision diagrams (BDDs), automatic test pattern generation (ATPG), and technology mapping. Students will gain experience using CAD tools. A small programming project is required. —S. Nowick
Prerequisite: CSC W 3823 and W 3139 (W 3131) or permission of the instructor. CSC W 3261 recommended, but not required.
3 points.

CSC W 4901x, y**Projects in Computer Science**

A second-level independent project involving laboratory work, computer programming, analytical investigation, or engineering design. May be repeated for credit, but not for more than a total of 3 points of degree credit. —Staff
Prerequisite: approval by a faculty member who agrees to supervise the work.
0-3 points.

CSC W 4995x, y**Special Topics in Computer Science**

Special topics arranged as the need and availability arises. Topics are usually offered on a one-time basis. Since the content of this course changes each time it is offered, it may be repeated for credit. —x: J. Kender; y: Instructor(s) TBA.
Prerequisite: Permission of the instructor.
3 points.

CSC W 4996x, y**Special Topics in Computer Science**

A continuation of Computer Science W 4995, when the special topic is to be offered over two terms. —Instructor(s) TBA.
Prerequisite: Permission of the instructor(s).
3 points.

CSC W 4999x or y**Computing and the Humanities**

Text data bases. Language applications, such as machine translation, information and retrieval, and computational stylistics (determining authorship). Digital library applications, including issues in text acquisition, text markup, networking display, and user interfaces. Educational applications. Legal reasoning, history applications involving inferencing and databases. —Instructor TBA.
3 points.

Professor: Sandra Genter (Chair, 1997-98)

Associate Professor: Donlin Foreman

Senior Lecturer: Janet Mansfield Soares (Chair, 1998-99)

Assistant Professor: Ellen Graff

Adjunct Professor: Deborah Jowitt

Lecturer: Mary Lisa Burns

Associates: Katie Glasner, Katiti King, Elena Kunikova, Gloria Marina, Neta Pulvermacher

Technical Director: Rhonda Robinson

The Barnard Dance Department seeks to develop technical versatility in dance performance, skill and originality in choreography, and critical understanding of the art of dance as a part of history and culture. Emphasis is placed on performing opportunities in ballet and modern idioms each semester, and on the encouragement of each student's growth as a creative artist.

Studios and theatres in New York City provide Barnard students opportunities to study and view an array of dance, while major libraries and dance institutions offer rich possibilities for research. The Dance Department regularly invites guest artists to teach and choreograph throughout the year.

All dance courses except Senior Seminar are open to students who meet the prerequisites. Barnard College Dance Department is an accredited institutional member of the National Association of Schools of Dance.

Students contemplating a dance major should consult with a member of the department in their first year. Declaration of the major requires departmental approval.

REQUIREMENTS FOR THE MAJOR

A minimum of 11 courses are required for the dance major. In addition, majors normally take two technique courses per semester. A Senior Major Project must be completed either in a research thesis or a performance in dance under the supervision of a chosen department adviser.

I. Nine required courses must include:

DAN BC 2561	<i>Kinesiology</i>
DAN BC 2562	<i>Movement Analysis</i>
DAN BC 2563	<i>Dance Composition: Form</i>
DAN BC 2564	<i>Dance Composition: Content</i>
DAN BC 2565	<i>History of Dance I: Multicultural Perspectives</i>
DAN BC 2566	<i>History of Dance II: Renaissance to the Present</i>
DAN BC 3571	<i>Performance Styles</i>
DAN BC 3572	<i>Repertory in Production</i>
DAN BC 3591	<i>Senior Seminar for Dance</i>

II. Two courses elected from the following:

DAN BC 2555	<i>Ensemble Dance Repertory</i>
DAN BC 2567	<i>Music for Dance</i>
DAN BC 3574	<i>Seminar on Contemporary Choreographers and Their Works</i>
DAN BC 3576	<i>Dance Criticism</i>
DAN BC 3577	<i>Performing the Political</i>

- III. A minimum of six points of dance technique courses. Students are also encouraged to elect courses outside the department in pursuit of the historical and cultural context of dance.

REQUIREMENTS FOR THE MINOR

Six courses constitute a minor in Dance. Normally, three history/criticism and three credit-bearing performance/choreography courses are taken. Courses are to be selected on the basis of consultation with the department chair.

COURSES OF INSTRUCTION

DAN BC 2561x **Kinesiology**

Focus on physical sciences that relate to human movement, with an emphasis on functional anatomy. Topics include skeletal structure, physics of dance, muscular balance, and improving movement potential. —S. Genter
3 points.

DAN BC 2562y **Movement Analysis**

Study of the nature of human movement concentrating on the basic elements of space, time, and body dynamics through readings, viewings, experimentation, and discussion. Learning descriptive movement language and analytical skill from the concepts of Rudolph Laban and other movement theorists. Includes written and performance projects. —S. Genter
3 points. Not offered in 1997-98.

DAN BC 3571 **Performance Styles**

The study of solo excerpts from classical ballet and modern dance repertory and the presentation of individual research in both written and performance format. Emphasis will be placed on the role that the dancer must play to facilitate the realization of the choreographer's concept. —D. Foreman
3 points.

DAN BC 3572y **Repertory in Production**

The relationship of dance repertory and production. The rigorous study of the visual elements of dance design through aesthetic and critical evaluation of scenographic techniques as they relate to specific dance repertory works. —Instructor TBA.
3 points.

DAN BC 2555 (Modern Dance), 2556 (Ballet) **Ensemble Dance Repertory**

The study and performance of choreography using three approaches: learning excerpts from

the repertoire of selected choreographers, analyzing through reconstruction classic repertory works, and understanding the choreographic process by working in a creation from initial concept to finished dance. —Instructor TBA.
Prerequisite: Permission of instructor.
3 points.

DAN BC 2558y **Evolution of Spanish Dance Style**

Study of Spanish dance and music from late 17th century to the present. Dance and music styles including castanet technique. Through historical documents, students will experience the cultural history of Spain. —G. Marina
Research paper and presentation required. Prerequisite: BC 3250x and permission of the instructor.
3 points. Not offered in 1997-98. III H

DAN BC 2563x **Dance Composition: Form**

The study of choreography as a creative art. The development and organization of movement materials according to formal principles of composition in solo and duet forms. Applicable to all styles of dance. —J. Soares
3 points.

DAN BC 2564y **Dance Composition: Content**

Continued study of choreography as a communicative performing art. This semester of dance-making focuses on the exploration of ideas and meaning. Emphasis is placed on the development of personal style as an expressive medium, and on unity of style in each work. Group as well as solo compositions will be assigned. —J. Soares
3 points.

DAN BC 2565x **History of Dance I:** **Multicultural Perspectives**

Investigates the multicultural perspectives of dance in major areas of culture in the world to

DANCE

include African, Asian, Hispanic, Indian, and Mideastern dance, as well as dance history of the Americas. Sources include films, original documents, demonstrations, and performances. Reading, writing, and viewing assignments. —E. Graff
3 points. II H

DAN BC 2566y
History of Dance II: Renaissance to the Present
Focuses on the history of theatre dance forms originating in Europe and America from the Renaissance to the present. Includes reading, writing, viewing, and discussion of sources such as film, text, original documentation, demonstration, and performance. —E. Graff
3 points. III H

DAN BC 2567y
Music for Dance
An intensive study of musicianship and musical literacy designed for students of dance. Analysis of the elements of rhythm, musical structure, texture, and style in the relationship of music to sound in the compositional process. —J. Soares
3 points. Not offered in 1997-98.

DAN BC 2750
Dance in New York City
A study of the cultural roots and historical contexts of specific communities using New York City's dance scene as a laboratory. Students will observe the social environments in which various modes of dance works are created while researching the history of dance in New York City. —J. Soares
3 points. III H

DAN BC 3099x, y
Independent Study
—Staff
1-4 points. Fee: \$95.

DAN BC 3574x
Seminar on Contemporary Choreographers and Their Works
Choreographic methods, structures, themes, and vocabulary will be examined in seminar discussions. Sources include assigned readings, film/video, and interviews with guest artists. Students must attend live performances, write short analytical papers; and present a final research project. —S. Genter
3 points. Not offered in 1998-99.

DAN BC 3576y
Dance Criticism
Intensive practice in writing about dance. Readings drawn from 19th- and 20th-century criticism.

Observation includes weekly performances and classroom videotape sessions. —D. Jowitt
3 points. Not offered in 1998-99.

DAN BC 3577y
Performing the Political: Embodying Change in 20th-Century American Performance
An examination of ways in which political and social ideologies are embedded in 20th-century American performance. Topics include venues designed to support traditional values, as well as to propagandize, such as pageantry, worker's theatre and dance, and performance art. Reading and viewing assignments. —E. Graff
3 points. Not offered in 1997-98. III H

DAN BC 3590x, y
Rehearsal and Performance in Dance
Students take part in the full production of a dance as performers, choreographers, designers, or stage technicians. Appropriate research, reading, and writing are required in addition to artistic assignments. Production requirements and rehearsal schedules will be posted at the start of each production. —Staff
Prerequisite: Audition. Permission of instructor required. Subject to cap on studio credit. Can be taken more than once for credit up to a maximum of 3 credits a semester. Will be graded. Students not wishing to take this for credit may participate fully in departmental productions with permission of the instructor.
1-3 points.

DAN BC 3591x
Senior Seminar in Dance
Research and scholarly writing in chosen topics relating to dance. Methods of investigation will be drawn from prominent archival collections and personal interviews, as well as other resources. Papers will be formally presented to the Dance Department upon completion. —J. Soares
4 points.

BC 3592x, y
Senior Project: Research for Dance
Independent study for research and writing (35-50-page thesis required). —Staff
3 points.

BC 3593x, y
Senior Project: Repertory for Dance
Independent study for preparing and performing repertory works in production to be presented in concert. —Staff
3 points.

DANCE TECHNIQUE COURSES

Level I courses, except for Dance Styles courses, receive a P/D/F grade and have no prerequisite. All others will receive a letter grade and require a placement audition (at the first meeting) or permission of the instructor. All courses listed below may be taken for 0 credit to fulfill the physical education requirement. One-point dance technique courses **taken by non-dance majors** for credit over and above the physical education requirement are included in the existing maximum of 18 points of studio, performing art, or professional school courses which may be credited toward the degree; a maximum of six courses in dance technique can be credited. A student may receive academic credit for a dance techniques class only if she has completed or is concurrently completing the Physical Education requirement.

Modern Dance

The study of contemporary dance based on the work of 20th-century innovators, including Cunningham, Graham, Humphrey, Limón, and others. Aesthetic principles of modern dance will be taught with increased technical demands required at each successive level.

DAN BC 1329x **Fundamentals of Dance Movement**

—Instructor TBA.
1 point.

DAN BC 1330x, 1331y **Modern I: Beginning Modern Dance**

—Instructor TBA.
1 point.

DAN BC 1332x, 1333y **Modern II: Advanced Beginning Modern Dance**

—Instructor TBA.
1 point.

DAN BC 2332x, 2333y **Modern III: Intermediate Modern Dance**

—Instructor TBA.
1 point.

DAN BC 2334x, 2335y **Modern IV: High Intermediate Modern Dance**

—Instructor TBA.
1 point.

DAN BC 3332x, 3333y **Modern V: Advanced Modern Dance**

—Instructor TBA.
1 point.

DAN BC 3335x, 3336y **Modern VI: High Advanced Modern Dance**

—Instructor TBA.
1 point.

DAN BC 3334x, 3337y **Improvisation**

—Instructor TBA.
1 point.

Ballet

Technique of classical ballet emphasizing proper alignment and graduated study of its vocabulary. Artistry of articulation, phrasing, dynamics, and nuance in the spectrum of classical materials will be addressed at each level.

DAN BC 1135x, 1136y **Ballet I: Beginning Ballet**

—Instructor TBA.
1 point.

DAN BC 1137x, 1138y **Ballet II: Advanced Beginning Ballet**

—Instructor TBA.
1 point.

DAN BC 2137x, 2138y **Ballet III: Intermediate Ballet**

—Instructor TBA.
1 point.

DAN BC 2139x, 2140y **Ballet IV: High Intermediate Ballet**

—Instructor TBA.
1 point.

DAN BC 3138x, 3139y **Ballet V: Advanced Ballet**

—E. Kunikova
1 point.

DAN BC 3140x, 3141y **Ballet VI: Advanced Ballet and Pointe**

—E. Kunikova
1 point.

DAN BC 3142x, 3143y **Classic Variations**

—E. Kunikova
Prerequisite/corequisite: DAN BC 3138x, BC 3139y, or BC 3141y.
1 point.

DANCE

DANCE STYLES

The study of indigenous dance forms including character, classical Spanish, jazz, musical theatre, and tap.

DAN BC 1247x, 1248y

Jazz I: Beginning Jazz Dance

—K. King

Prerequisite: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.

1 point.

DAN BC 2248x, 2249y

Jazz II: Intermediate Jazz Dance

—K. King

Prerequisite: DAN BC 1247 or permission of the Dance Department.

1 point.

DAN BC 3248x, 3249y

Jazz III: Advanced Jazz Dance

—K. King

Prerequisite: DAN BC 2248x, y

1 point.

DAN BC 1445x, 1446y

Tap I: Beginning Tap Dance

1 point.

DAN BC 2447x, 2448y

Tap II: Intermediate Tap Dance

1 point. Not offered in 1997-98.

DAN BC 2450x, 2451y

Musical Theatre Dance

—E. Graff

Prerequisites: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.

1 point.

DAN BC 2141x

Character Dance

Prerequisites: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.

1 point. Not offered in 1997-99.

DAN BC 3250x, 3251y

Classical Spanish Dance I

—G. Marina

Prerequisites: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.

1 point.

DAN BC 3252x, 3353y

Classical Spanish Dance II

—G. Marina

Prerequisites: DAN BC 3250x, y, or permission of the Dance Department.

1 point.

Professors: André Burgstaller, Duncan Foley (Chair)

Associate Professor: Perry Mehrling

Assistant Professors: Linda Barrington, Neil Buchanan, Alan Dye, Sharon Harrison, Elizabeth Katz, Lalith Munasinghe, Rajiv Sethi

Other officers of the University offering courses listed below:

Professors: Kyle Bagwell, Padma Desai, Phoebus Dhrymes, Richard Ericson, Fumio Hayashi, Kelvin Lancaster, Robert Mundell, Edmund Phelps, Xavier Sala-I-Martin

Associate Professors: Alessandra Casella, Christopher Cavanagh, Jay P. Choi, Todd Idson, Brendon O’Flaherty

Assistant Professors: Stephen Cameron, Alexander Pfaff

Adjunct Professors: Vahid Nowshirvani, Carl Riskin, Lewis Schier, David Weiman

The Department of Economics offers a broad course of study in economic theory and applied economics. The study of economics is an important foundation for a student’s general understanding of modern history and society. Barnard’s major programs in economics also prepare students for graduate work in economics, business, law, public administration, and international relations and related fields, as well as for careers in business, finance, and government. The aims of the programs are: (i) to foster a critical understanding of economics and its relation to other disciplines; (ii) to develop students’ mastery of modern economic theory and its tools of analysis.

Students planning to major in economics or political economy should complete both intermediate macro- and microeconomic theory by the beginning of their junior year.

Students with a score of 4 or 5 on the Advanced Placement Examination in either macroeconomics or microeconomics will receive a total of three points of credit.

REQUIREMENTS FOR THE MAJOR

There are two tracks for the major in economics equal in rigor, but different in scope and focus. The track in Economics teaches students the theory and the analytical and mathematical tools now expected of entering graduate students in economics and useful for graduate study in related fields such as business. The track in Political Economy emphasizes the roots of modern economics in the history of economic thought and the interconnections between social forces, political institutions, and economic power. This track constitutes an excellent preparation for a variety of professional schools and careers.

Prospective majors should discuss their programs with any member of the department no later than the second semester of their sophomore year. At the time of declaring the major, the student also chooses a major adviser, who will advise her as to choice of program and courses and help in the choice of a senior essay topic and adviser.

Students who wish to complete a double or joint major that includes economics should consult the chair of the department as early in their planning as possible.

Economics

The Economics track major requires one semester of calculus—a second semester is strongly recommended— and nine courses in economics, including:

ECO BC 2411	Statistics for Economics (or STA W 1111 Introduction to Statistics or STA W 1001 Introduction to Statistical Reasoning)
ECO BC 3018	Econometrics
ECO BC 3033	Intermediate Macroeconomic Theory

ECONOMICS

ECO BC 3035	<i>Intermediate Microeconomic Theory</i>
ECO BC 3041	<i>Theoretical Foundations of Political Economy;</i>

two electives with intermediate micro- or macroeconomic theory as a prerequisite; and either ECO BC 3061-62, *Senior Research Seminar*, or a Senior Seminar (ECO BC 3063, ECO BC 3064, ECO BC 3065) and an additional upper-level elective in Economics with intermediate micro- or macroeconomic theory as a prerequisite. (With permission of the chair and the instructor, 4 points of ECO BC 3099, *Independent Study*, may be substituted for the additional elective.)

Political Economy

The Political Economy track major requires 11 courses, including:

ECO BC 3033	<i>Intermediate Macroeconomic Theory</i>
ECO BC 3035	<i>Intermediate Microeconomic Theory</i>
ECO BC 3041	<i>Theoretical Foundations of Political Economy;</i>

three electives with intermediate micro- or macroeconomic theory as a prerequisite; two electives in economics (excluding introductory economics) or a related discipline; one upper-level course in political science*; and either ECO BC 3061-62 *Senior Research Seminar*, or a Senior Seminar (ECO BC 3063, ECO BC 3064, ECO BC 3065) and an additional upper-level elective in Economics with intermediate micro- or macroeconomic theory as a prerequisite. (With permission of the chair and the instructor, 4 points of ECO BC 3099 *Independent Study* may be substituted for the additional elective.)

*The following political science courses are not considered upper level:

BC 3001	<i>Dynamics of American Politics</i>
V 3505	<i>Introduction to Comparative Politics</i>
V 3611	<i>International Politics</i>
BC 3013	<i>Political Theory</i>

Both Economics and Political Economy track majors must file the “Major Requirements Declaration” form—available from the department office—no later than at registration for the second semester of their senior year.

We recommend that all Political Economy track majors — especially those who plan to go on to business school or to graduate school in public administration or international relations — take one semester of college-credit math (either pre-calculus or calculus) and Economics BC 2411. Political Economy track majors who plan to go on to graduate school Ph.D. programs in economics should take two years of mathematics, including one year of calculus, and statistics and econometrics.

Mathematics Training for the Major

The department expects *all* majors to have a working knowledge of arithmetic, high-school algebra, and the fundamentals of analytic geometry.

REQUIREMENTS FOR THE MINOR

The minor in economics requires five courses, including an introductory course in economics, BC 3033 or BC 3035, and three electives, one of which has an intermediate micro- or macroeconomic theory course as a prerequisite.

COURSES OF INSTRUCTION

INTRODUCTORY COURSES

The principles of economics and statistics; may be taken without previous study of economics or statistics.

ECO BC 1001x, y**Introduction to Macroeconomics**

Basic concepts of economic analysis, with emphasis on the aggregate economy; essentials of supply and demand, national income and its determination, United States economic institutions, fiscal and monetary policy, international economics, economic growth and inequality, problems of developing nations. —Staff

3 points.

III S

ECO BC 1002x, y**Introduction to Microeconomics**

Basic concepts of economic analysis, with emphasis on resource allocation: utility and demand, cost and supply, determination of prices and income distribution through demand and supply, market structures, and alternative economic systems. —Staff

BC 1001 is not a prerequisite for BC 1002. Credit cannot be granted for both BC 1002 and W 1105.

3 points.

S

ECO BC 2035y**Microeconomic Policy Analysis**

Introduction to microeconomic theory and cost/benefit analysis through case studies. Specific cases studied may vary from year to year, but will always include at least one case from each of the following three subject areas: 1) environmental policy; 2) tax policy and income redistribution; and 3) urban economic development. —Staff

3 points.

S

ECO BC 2411x**Statistics for Economics**

Elementary computational methods in statistics. Basic techniques in regression analysis of econometric models. One-hour weekly recitation sessions to complement lectures. —Staff

4 points.

S

GENERAL COURSES

The study of history and of contemporary society in an economic perspective; institutional and traditional approaches. These courses may be taken without previous study of economics.

ECO BC 2010x**The Economics of Gender**

Examination of gender differences in the U.S. and other advanced industrial economies. Topics include the division of labor between home and market, the relationship between labor force participation and family structure, the gender earnings gap, occupational segregation, discrimination, and historical, racial, and ethnic group comparisons. —Staff

3 points.

I S

ECO BC 2014y**Topics in Economic History**

Topics vary in content. See departmental listing or instructor for the current topic. —Staff

3 points.

III S

ECO BC 2023**Sustainable Development and the Global Environment**

An examination of the relationship between economic growth and the natural environment with particular emphasis on developing countries. The linkages between poverty, population growth and the depletion of the natural resource base will be explored. Other topics include gender and the environment, famines, and common property resource management. —Staff

3 points.

S

ECO BC 2024x**Gender and Economic Development**

Analysis of the impact of economic development on gender relations, and the role that gender plays in the development strategies and outcomes.

Topics include household resource allocation; labor force participation; migration; poverty and structural adjustment; property rights; gender and the environment; and gender issues in developing country education. —Staff

3 points.

I S

UPPER-LEVEL REQUIRED COURSES

The courses and seminars listed below, required of Political Economy and/or Economics track students, constitute the core of the Barnard Economics major.

ECO BC 3018y

Econometrics

Specification, estimation, and evaluation of economic relationships using economic theory, data, and statistical inference; testable implications of economic theories; econometric analysis of topics such as consumption, investment, wages and employment, and financial markets. —Staff

Prerequisites: BC 3035 or BC 3033, and BC 2411 or STA W 1111 or STA W 1001, or permission of the instructor.

4 points.

S

ECO BC 3033x, y

Intermediate Macroeconomic Theory

Systematic exposition of current macroeconomic theories of unemployment, inflation, and international financial adjustments. Weekly recitation section to complement lectures. —Staff

Prerequisites: An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry or permission of the instructor.

x: Primarily for majors in the Economics track.

y: Primarily for majors in the Political Economy track.

4 points.

S

ECO BC 3035x, y

Intermediate Microeconomic Theory

Preferences and demand; production, cost, and supply; behavior of markets in partial equilibrium; resource allocation in general equilibrium; pricing of goods and services under alternative market structures; implications of individual decision-making for labor supply; income distribution, welfare, and public policy. Emphasis on problem solving. Weekly recitation section to complement lectures. —Staff

x: *Prerequisites:* An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry, or permission of the instructor. This section is primarily for students in the Political Economy track.

y: *Prerequisites:* An introductory course in economics or permission of the instructor, and one semester of calculus. This section is primarily for students in the Economics track.

4 points.

S

ECO BC 3041x, y

Theoretical Foundations of Political Economy

Intellectual origins of the main schools of thought in political economy. Study of the founding texts in classical political economy, Marxian economics, neoclassicism, and Keynesianism. —Staff

Prerequisite: An introductory course in economics or permission of the instructor.

3 points.

III S

ECO BC 3061x, 3062y

Senior Research Seminar

Tutorials and conferences on the research for and

writing of the senior essay. —Staff

Prerequisites: Permission of the instructor.

4 points.

UPPER-LEVEL ELECTIVE COURSES

ECO BC 3011y

Poverty and Income Distribution

Issues of definition and measurement relating to poverty and distribution of income in the U.S., analysis of cross-section and time-series data; alternative economic theories of poverty and income distribution, e.g., transfers, wage subsidies, training programs. —Staff

Prerequisite: BC 3035 or BC 3033, or permission of the instructor.

3 points.

S

ECO BC 3013x

Economic History of the United States

Economic transformation of the United States from the colonial period to the present. —Staff

Prerequisite: BC 3035 or BC 3033, or permission of the instructor.

3 points.

III S

ECO V 3265

The Economics of Money and Banking

Introduction to the principles of money and banking. The intermediary institutions of the American economy and their historical developments, current issues in monetary and financial reform. —Staff

Prerequisite: Intermediate Macroeconomic Theory, ECO BC 3033.

3 points.

III S

ECO BC 3016x

Spending, Deficits and Taxes

Principles of government expenditure and taxation; alternative theoretical perspectives on government's role in a "mixed economy", structure of U.S. tax system, with emphasis on tax incidence, the effects of taxes on economic behavior, and detailed analysis of selected policy issues. —Staff

Prerequisite: BC 3035 or BC 3033, or permission of the instructor.

3 points.

S

ECO BC 3017y

Economics of Business Organization

The economics of firm organization and the evolution of the modern business enterprise. The function of organizations in coordinating the use of economic resources. The role of technology, labor, management, and markets in the formation of the business enterprise. Includes international comparisons and attention to alternative economic theories on the role of business organizations on national competitive advantage.

—Staff

Prerequisite: BC 3035 or permission of the instructor.
3 points. I S

ECO BC 3019x

Labor Economics

Factors affecting the allocation and remuneration of labor; population structure; unionization and monopsony; education and training, mobility and information; sex and race discrimination; unemployment; and public policy. —Staff

Prerequisite: BC 3035, or permission of the instructor.
3 points. S

ECO BC 3021y

The Regulation of Industry

The economic effects of government regulation of industry; the history, structure, and organization of regulatory agencies; the theory of natural monopoly and public utility pricing; the costs and benefits of health and safety regulations; case studies of specific industries. —Staff

Prerequisite: BC 3035.

3 points. S

ECO BC 3029x

Development Economics

A broad overview of the leading issues in development economics, including macroeconomic theories of development; poverty and inequality; population; agricultural development; rural-urban migration; natural resources and the environment; the roles of trade, international finance, direct foreign investment, and foreign aid; stabilization and structural adjustment. —Staff

Prerequisite: BC 3035 or BC 3033, or permission of the instructor.

3 points. I S

ECO V 3025y

Financial Economics

Institutional nature and economic function of financial markets. Emphasis on both domestic and international markets (debt, stock, foreign exchange, Eurobond, Eurocurrency, futures, options, and other). Principles of security pricing and portfolio management; the Capital Asset Pricing Model and the Efficient Markets Hypothesis. —R. Sethi

Prerequisites: BC 3035 and BC 2411, STA W 1111 or STA W 1001.

3 points. S

ECO BC 3037y

Growth and Distribution

Classical theories of growth and distribution and their modern transformations; the dynamic effects of changes in technology, savings behavior, and the distribution between wages and profits on the rate of economic growth; growth dynamics with limited

resources; multisectoral growth models, relative prices, and the uniform rate of profit; applications to the study of real economies. —Staff

Prerequisite: BC 3033 and BC 3035, or permission of the instructor.

3 points. S

ECO BC 3038y

International Money and Finance

An introduction to balance of payments and exchange rate theory. Internal and external adjustment under fixed and flexible exchange rates.

International financial markets. Capital mobility and expectations. International policy coordination, optimum currency areas, and their role in global and regional economic integration. History of the international monetary system. —Staff

Prerequisite: BC 3033

3 points. S

ECO BC 3039x

Environmental and Natural Resource Economics

The link between economic behavior and environmental quality: valuation of non-market benefits of pollution abatement; emissions standards; taxes; and transferable discharge permits. Specific problems of hazardous waste; the distribution of hazardous pollutants across different sub-groups of the U.S. population; the exploitation of commonly owned natural resources; and the links between the environment, income distribution, and economic development. —Staff

Prerequisite: ECO BC 1002 or ECO BC 2035.

Prerequisite for Economics majors: ECO BC 3035.

3 points. S

ECO BC 3051y

Law and Economics

Economic analysis of the law (U.S.). Constitutional law, property law, contracts, torts, corporation law. Economic rationale for existing legal rules and economic forces changing legal rules. —Staff

Prerequisite: BC 3035

3 points. S

ECO BC 3063y

Seminar: Topics in Economic Theory

A topic in economic theory of the instructor's choice. See departmental listing or instructor for current topic. —Staff

Prerequisite: BC 3035 or BC 3033, and permission of the instructor.

4 points. S

ECO BC 3064y

Seminar: Topics in Economic Policy

A topic in economic policy of the instructor's choice. See departmental listing or instructor for

current topic. —Staff <i>Prerequisites:</i> BC 3035 or BC 3033, and permission of the instructor. 4 points.	S	
ECO BC 3065y Seminar in Business Organization A seminar on the evolving nature of the business enterprise; the roles of labor, technology, management, and finance in the production and distribution of services; the sources of productivity, profitability, and competitive advantage; the impact of business organization on national economic performance; the implications of business organization for alternative economic theories and for alternative economic policies. —Staff <i>Prerequisites:</i> BC 3035 and permission of the instructor. 4 points.	I	S
ECO BC 3099x, y Independent Study —Staff <i>Prerequisite:</i> Permission of the instructor. Points TBA. The following courses are described in the bulletin of Columbia College. Graduate courses are open to qualified undergraduates with the instructor's permission. Note: Barnard Economics BC 3033 is equivalent to Columbia W 3213, and Barnard BC 3035 to Columbia W 3211. Please consult the department office for a list of Columbia economics courses whose subject matter overlaps directly with Barnard economics courses (only one of two such courses will earn credit).		
ECO W 2261x, y Introduction to Accounting and Finance (<i>Note: Only one course in accounting will be credited toward the Bachelor of Arts degree.</i>) 4 points.		
ECO W 3412x, y Econometrics <i>Prerequisites:</i> Statistics W 1111 or the equivalent and W 3211 or W 3213. (Equivalent to BC 3018) 3 points.	S	
ECO W 4020y Economics of Uncertainty and Information —Instructor TBA. <i>Prerequisites:</i> W 3211 and STA W 1111 3 points.	S	
ECO W 4228x The Urban Economy —B. O'Flaherty <i>Prerequisite:</i> W 3211 3 points.	III	S
ECO W 4251x Industrial Organization —J. Choi <i>Prerequisite:</i> W 3211 3 points.		S
ECO W 4311y Economic History of the U.S. —D. Weiman <i>Prerequisite:</i> W 3211. 3 points.	III	S
ECO W 4321x Economic Development —Instructor TBA. <i>Prerequisite:</i> ECO W 3211. (Equivalent to BC 3029) 3 points.		S
ECO W 4325x Economic Organization and Development of Japan —F. Hayashi <i>Prerequisites:</i> W 3211 or W 3213. 3 points.	II	S
ECO W 4329x Economics of Sustainable Development —A. Pfaff <i>Prerequisite:</i> W 3211. 3 points.		S
ECO W 4337x Economic Organization and Development of the Middle East —V. Nowshirvani <i>Prerequisite:</i> W 1105. 3 points.	II	S
ECO W 4345y World Economic Problems —E. Phelps <i>Prerequisite:</i> W 3211. 3 points.	I	S
ECO W 4370x Political Economy —Instructor TBA. <i>Prerequisite:</i> W 3211. 3 points.	III	S
ECO W 4375x The Rise of the Atlantic Economy An examination of the causes and consequences of long-term regional and global economic integration by looking at the rise of the Atlantic economy from the early modern period to the present century. The focus will be on the integration of Western Europe, North America, Latin America, and the Caribbean, and on comparison of the different paths of long-term economic		

growth in these regions. —A. Dye <i>Prerequisite:</i> BC 3035 or W 3211 or permission of the instructor. 3 points.	III	S	ECO W 4526y Current Economic Problems of the CIS —P. Desai <i>Prerequisite:</i> W 1105. 3 points.	III	S
ECO W 4400y Labor Economics —Instructor TBA. <i>Prerequisite:</i> W 3211. (Equivalent to BC 3019) 3 points.	S		ECO W 4610x The Economic Analysis of Law —Instructor TBA. <i>Prerequisite:</i> Economics W 3211. 3 points. (Equivalent to BC 3051)		S
ECO W 4415x Game Theory —Instructor TBA. <i>Prerequisite:</i> Economics W 3211. 3 points.	S		ECO W 4625y The Economics of the Environment —A. Pfaff <i>Prerequisite:</i> W 3211. (Equivalent to BC 3039) 3 points.		S
ECO W 4438x The Economics of Race in the U.S. —B. O’Flaherty <i>Prerequisites:</i> Economics W 3211 and STA W 1111. 3 points.	III	S	ECO W 4711x Monetary Economics and Policy —Instructor TBA. <i>Prerequisite:</i> W 3213. 3 points.		S
ECO W 4462x Health Care Economics - —Instructor TBA. <i>Prerequisite:</i> W 3211. 3 points.			ECO G 4340x Developing Countries in the World Economy —Instructor TBA. <i>Prerequisites:</i> W 3211 and W 3213. 3 points.	I	S
ECO W 4465y Public Economics —K. Lancaster <i>Prerequisite:</i> W 3211. (Equivalent to BC 3016) 3 points.	S		ECO G 4523x Economic Organization and Development of the CIS —R. Ericson <i>Prerequisite:</i> W 1105. 3 points.	III	S
ECO W 4500x International Trade —R. Mundell <i>Prerequisite:</i> W 3211. 3 points.	S		ECO G 4527y Economic Organization and Development of China —C. Riskin <i>Prerequisite:</i> W 1105. 3 points.	II	S
ECO W 4505x International Monetary Theory and Policy —Instructor TBA. <i>Prerequisite:</i> W 3213. 3 points.	S				

This program is supervised by the Committee on Economic History.

Economics: Linda Barrington (Program Adviser), Alan Dye

History: Deborah Valenze

The Economic History Program is an interdisciplinary program combining history and economics. It seeks to develop a knowledge of the human experience through the record of the past and an understanding of the historical process from an economic perspective. The program combines the discipline of investigation and interpretation of the past with the study of the tools of economic analysis and quantitative skills and their use in historical investigation. Majors in this program will have a broad academic exposure that will prepare them to enter graduate programs in law, business, public policy, or administration as well as economics and history.

REQUIREMENTS FOR THE MAJOR

A major in Economic History must complete the following 11 courses or their equivalents:

ECO BC 2014	<i>Topics in Economic History</i>
ECO BC 3013 or W 4311	<i>Economic History of the United States</i>
ECO BC 3041	<i>Theoretical Foundations of Political Economy</i>

Two of the following:

ECO 3033	<i>Intermediate Macroeconomic Theory</i>
ECO 3035	<i>Intermediate Microeconomic Theory</i>
ECO 2411	<i>Statistics for Economics</i>

ECH BC 3066x-3067y Two semesters of *Senior Research Seminar in Economic History* is to be supervised by a faculty member approved by the program adviser.

Four history courses (three within a single concentration) selected in consultation with the major adviser.

No minor is offered in the Economic History.

Economics Department Representative: Duncan Foley

Mathematics Department Representative: David Bayer

The Economics and Mathematics major provides the student with a grounding in economic theory comparable to that provided by the general economics major and exposes the student to rigorous and extensive training in mathematics. The program will be particularly useful for students planning to do graduate work in economics, which frequently demands greater mathematical training than that acquired through the minimum requirements of the basic economics degree.

REQUIREMENTS FOR THE MAJOR

A major in Economics and Mathematics must complete the following 14 courses or their equivalents:

Economics: (7 courses)

ECO BC 3018	<i>Econometrics</i>
ECO BC 3033	<i>Intermediate Macroeconomic Theory</i>
ECO BC 3035	<i>Intermediate Microeconomic Theory</i>
ECO BC 3041	<i>Theoretical Foundations of Political Economy</i>
ECO BC 3062	<i>Senior Research Seminar</i> (two semesters of the <i>Senior Research Seminar</i> are optional)

Two electives with an intermediate micro- or macroeconomic theory course as prerequisite.

Mathematics: (7 courses)

MAT V 1105	<i>Calculus IS</i>
MAT V 1106	<i>Calculus IIS</i>
MAT V 2010	<i>Linear Algebra</i>
MAT W 4061	<i>Introduction to Modern Analysis</i>
or	
MAT V 2500	<i>Analysis and Optimization</i>
STAT-IEOR W 4150	<i>Introduction to Probability and Statistics</i> (this replaces ECO BC 2411 <i>Statistics for Economics</i>)

Two electives above the 2000 level.

Calculus IA, IIA, and IIIA or Honors Calculus may be substituted for IS, IIS with permission from the economics and mathematics department representatives. Students must obtain approval from each department representative before selecting electives. In exceptional cases, these may be from related fields.

EDUCATION

336 Milbank Hall

854-2117, 5408, 7072, 7160

Senior Lecturers: Susan Riemer Sacks (Program Director), Katherine Knight Wilcox

Associate: Christine Valenza

This program is supervised by the Committee on Education:

Professor of English: Elizabeth Dalton

Professor of Spanish: Mirella Servodidio

Professor of Psychology: Peter Balsam

Associate Dean of Columbia College: Kathryn Yatrakis

Dean of Students, School of General Studies: Rick Ferrero

The Barnard Education Program provides a course of study for Barnard, Columbia, and General Studies students who are interested in teaching children or adolescents on the elementary or secondary level, or in working with young people or adults in human service agencies, or in preparing for careers related to education. The Education Program courses are taken in conjunction with a major in an approved field of study and may constitute a minor. Courses counted toward a major may not be doubly counted for a minor.

Interested first- or second-year students should consult with the Education Program faculty in 336 Milbank and obtain an information packet and application, along with the Admissions Policy. Enrollment for student teaching is limited. Applicants are accepted on the basis of good academic standing, evidence of interest in the field of education, and capacity for growth in areas vital to the teaching-learning experience. Students may apply for admission during the sophomore year and no later than the first Monday in October in the autumn term of the junior year. See Admissions Policy.

The Education Program is approved by the New York State Education Department. Graduates of the Program are recommended for New York State Provisional Certification, which makes them eligible for membership in the Interstate Certification Agreement, a reciprocal certification arrangement among thirty-one states. Consistent with the program requirements, certification is based on demonstration of competency in both academic and field settings. Students must pass the New York State Teacher Certification Examination and the Seminar in Identifying and Reporting of Child Abuse as part of the certification process.

Elementary School Program

This program leads to the New York State Provisional Common Branch Certificate (pre-K–6). Students participating in the elementary program must complete a total of 24 credits as follows:

One Psychology course, chosen from among:

Psychology BC 1105 or BC 1107

Psychology BC 1127 or BC 1129

Psychology BC 1130 or BC 1132

Psychology BC 2134

Psychology of Learning

Developmental Psychology

Human Memory and Learning

Educational Psychology

One Foundations course, chosen from among:

Philosophy V 3758

Sociology V 3225

Education BC 2032

History BC 3461

Philosophy of Education

Sociology of Education

Contemporary Issues in Education

Education in American History

A third course from either of the above categories, and the methods course with practicum:

Education BC 2052	<i>Seminar in Methods of Elementary School Teaching</i>
Education BC 2055	<i>School Practicum</i>

During the Spring term of their junior year, all students entering the elementary education program take Education BC 2052 and corequisite Education BC 2055. BC 2052 and BC 2055 are prerequisites to elementary student teaching.

Secondary School Program

Programs leading to the New York State Provisional Secondary Certificate (7–12) are offered in the fields of English, Foreign and Ancient Languages, Mathematics, the Sciences, and Social Studies. Students participating in the secondary program must complete a total of 20 credits from the following course of study:

One Psychology course, chosen from Psychology BC 1105 or BC 1107; BC 1127 or BC 1129; BC 1130 or BC 1132; or BC 2134; and

The methods course with practicum:

Education BC 2062	<i>Seminar in Secondary School Curriculum Development</i>
Education BC 2055	<i>School Practicum</i>

All students entering the secondary education program take this methods course, which covers principles and methods for teaching English, Social Studies, the Sciences, Mathematics, and Ancient and Foreign Languages; and School Practicum, a classroom internship each week. Education BC 2062 and Education BC 2055 are prerequisites to secondary student teaching.

All senior students in the Elementary or Secondary Education Program enroll concurrently in the following two courses for four credits each:

Education BC 3063	<i>Teaching in the Elementary or Secondary Schools</i>
Education BC 3064	<i>Seminar in the Teaching-Learning Process</i>

Education BC 3063 is the field-based student teaching experience which places students in a classroom five mornings a week for one semester. Student teaching provides the opportunity to develop curricular materials and, with close supervision, to implement them through practice teaching.

Education BC 3064 is a weekly seminar which provides a forum for discussions of the principles and practices of classroom teaching. The student examines the teaching experience and the interrelationships between the subject area, child and adolescent development, the role of the school in society, and the teacher as a decision-maker.

Student teaching and the seminar should be registered as Education BC 3063x and BC 3064x in the Autumn term, or Education BC 3063y and BC 3064y in the Spring term. No more than two other courses should be taken in addition to student teaching and the seminar, and student with incompletes may not student teach.

Senior year student teaching may conflict with other training opportunities at Barnard (e.g., Psychology BC 3465, BC 3466, assisting at the Center for Toddler Development). Students with these interests should arrange their schedules appropriately.

REQUIREMENTS FOR THE MINOR

The minor requires a minimum of six courses: Education BC 3063, Education BC 3064, a methods course and the practicum course, and two others from those courses cited above but not counted toward the major.

COURSES OF INSTRUCTION

EDU BC 2032x

Contemporary Issues in Education

Study of critical issues confronting education today and the relation to contemporary society. Topics include equity in learning experiences for bilingual, culturally diverse, gifted, and disabled students—girls and boys. The impact of computers, technology, and values teaching on schooling will be addressed. Observations in classroom required. —Instructor TBA.

Enrollment limited to 25. Prerequisite: Permission of the instructor.

4 points.

I

EDU BC 2052y

Seminar in Methods of Elementary School Teaching

Methods of teaching reading and mathematics and techniques for integrating the core subjects into the elementary curricula examined through the experience of working with children in an elementary school classroom and the weekly Barnard seminar. —Instructor TBA.

This course should be taken in the Spring term of the junior year with corequisite BC 2055.

Prerequisite to student teaching in the elementary grades. Open to Education Program applicants and others with permission of the instructor.

4 points.

EDU BC 2055y

School Practicum

A school-based opportunity to investigate educational theory and methodology in practice through involvement in assigned elementary or secondary New York City public schools. Supervised classroom experiences interrelate with corequisite Methods seminars to provide an understanding of teaching and learning processes through participant observation of 6 hours per week.

—Sec. 1 TBA; Sec. 2 C. Valenza

Corequisite: Sec. 1, elementary, BC 2052y or Sec. 2, secondary, BC 2062y.

2 points.

EDU BC 2062y

Seminar in Secondary School Curriculum Development

Theory and practice of developing curricula for secondary school classrooms. Emphasis on the application of pedagogical methods to specific content areas, as well as general strategies for classroom management and meeting the needs of diverse student populations. Includes analysis of teacher-centered to student-centered approaches,

and incorporates portfolio assessment. —C. Valenza
This course should be taken in the Spring term of the junior year with corequisite BC 2055. Prerequisite to student teaching in the secondary schools. Open to Education Program applicants and to others with permission of the instructor.

4 points.

EDU BC 3063x, y

Teaching in the Elementary or Secondary Schools

Student teaching: classroom teaching in elementary or secondary schools and exploration of the interrelations of process, content, and values in the educational experience. Student teaching requires a minimum of 20 class periods per week, each morning for one semester of the senior year. —Staff

Prerequisite: Completion of BC 2052 or BC 2062 and BC 2055. Corequisite: BC 3064. Both BC 3063 and BC 3064 are required for teaching certification. Enrollment limited.

4 points.

EDU BC 3064x, y

Seminar in the Teaching-Learning Process

Examination of principles of classroom teaching and educational process in our society. This seminar accompanies student teaching and provides guidelines for teaching reading and subject areas and workshop experiences related to the learning situation. Provides a forum for discussion of the principles and practices of classroom teaching and examines the educational process.

Teaching skills are developed through individual supervision, conferences, and videotaping.

Seminar sessions include discussion of drug, alcohol, and child abuses. —S.R. Sacks

Prerequisite: Admission to Education Program.

Corequisite: BC 3063. Enrollment limited.

4 points.

History HIS BC 3461x

Education in American History

A consideration of the place educational institutions, educational ideas, and educators have played in American life. Emphasis will be on the connection between education and social mobility. —N. Woloch

Permission of the instructor required.

4 points.

Philosophy PHI V 3758y

Philosophy of Education

Drawing on classical and contemporary authors, discussion with focus on the question of the

conditions requisite for producing free and responsible individuals. Selected readings from Plato, Rousseau, Dewey, and others. —N. Gill
3 points.

Sociology SOC V 3225y
Sociology of Education

Social organization of education in the United States: the school as a complex organization; the

classroom as a learning environment; social factors in academic aspirations and achievements; selected innovations in educational practices; and problems in the relations between the school and the community. —R. Freeland
3 points.

COOPERATING TEACHER PARTICIPANTS FOR 1996-1997

Lillian Weber School, P.S. 84

Linda Crews
Mary Foote
Myra Lefkowitz
Clarence Loftin
Ruth Schroeder

William Sherman School

P.S. 87

Leslie Corbin
Kathy Correa
Jaclyn Faust
Betty Lerner
Eileen Varon

Hunter High School

English:
Dan Rouse

Booker T. Washington

J.H.S. 54

English:
Candace Burnett
Science:
Peter Torpie

Martin Luther King, Jr.

High School

Social Studies:
Gregg Bethel

John F. Kennedy H.S.

Biology:
Jodie Pear
English:
Rita Karig
Social Studies:
Peter Ciemins
Stephen Mathur

P.S. 9 Renaissance School

for Music and Art

Laurie Andrews
Heather Bobey
Marcy Hraznek
Marilyn Meyer
Robert Moy
Rosemary Varlese

LaGuardia High School

English:
Beverly Kurtz
Music:
Ron Smith
Gerald Trevor

Mott Hall School

English:
Loraine McCurdy

COOPERATING SCHOOLS FOR PRACTICUM PLACEMENTS

Elementary: (Manhattan)

P.S. 6, Lillie Deveraux Blake
P.S. 9, Renaissance School for Music and Art
P.S. 75, Emily Dickinson
P.S. 84, Lillian Weber School
P.S. 87, William Sherman School
P.S. 125, Ralph Bunche School
P.S. 128, Audubon
P.S. 145, Bloomingdale
P.S. 161, Pedro Albizu Campos
P.S. 183, The School for Discovery
Family Academy
IS 118, School for Academic & Athletic Excellence

(New Jersey)

Lincoln School, Englewood
Spring Garden School, Nutley

Secondary:

Columbus Academy
Fannie Lou Hamer Freedom School
Humanities High School
Hunter High School
John F. Kennedy High School
Martin Luther King, Jr. High School
Middle College High School
Mott Hall School
Stuyvesant High School
Booker T. Washington, J.H.S. 54

Institute for Urban Education at Barnard

A summer program for highly motivated college students who study in New York City public middle schools and work during July in forest ecology with seventh grade pupils and teachers. Students gain experience with urban education, early adolescents, science curriculum, and inquiry learning.

IUE BC 2001
Issues in Urban Education

Examination of urban middle school structures and the impact of policy on educational purposes and practices. Emphasis on learners and teachers within the school setting, on early adolescent development, on differential, often gender-related, academic and social experiences, and on the teacher. —S. Sacks, C. Valenza

Prerequisite: Admission to Institute, selection as IUE Fellow.

3 points. Last week of May through June.

IUE BC 2002
Independent Study: Scientific Inquiry and Curriculum Development

Focus on the development of site-based scientific activities and the strategies for implementation with early adolescents. Emphasis is on approaches to active learning and scientific inquiry, observation, data gathering, and analysis. Students implement curriculum in home community schools.

—S. Sacks, E. MacMullen (Yale)

Prerequisite: IUE BC 2001, selection as IUE Fellow.

3 points. July and throughout Fall term.

- Professors:** James Basker, Elizabeth Dalton, Mary Gordon (Millicent C. McIntosh Professor), Maire Jaanus, Anne Lake Prescott, William Sharpe
- Associate Professor:** Christopher Baswell (Chair)
- Adjunct Professor:** David Plante
- Adjunct Associate Professors:** Frank Brady, Thulani Davis, Ellen McLaughlin
- Assistant Professors:** Lisa Gordis, Ross Hamilton, Jennie Kassanoff, Paula Loscocco, Peter Platt, Claudia Rankine
- Adjunct Assistant Professors:** Sarah Schulman, Lisa Shea
- Senior Lecturers:** Margaret Ellsberg, Nancy Kline Piore (Director of The Writing Program), Cary Plotkin
- Lecturers:** Constance Brown, Patricia Denison, John Pagano, Aaron Schneider, Elizabeth Stewart, Timea Szell, Margaret Vandenburg
- Senior Associate:** Quandra Prettyman
- Instructors:** Lea Baechler, Lauren Fitzgerald, James Runsdorf
- Assistant:** Connie Budelis

The offering in English is designed to foster good writing, effective speaking, and heightened understanding of texts that enrich our culture.

Students majoring in English are encouraged to develop their responsiveness to the literary imagination and their sensitivity to literary form through disciplined attention to language and to critical and scholarly methods.

Non-majors may satisfy the distribution requirement in the Humanities (Part A) and in Culture and Societies (Part B) by electing appropriate courses listed under Language and Literature.

REQUIREMENTS FOR THE MAJOR

A major program consists of at least 10 courses in sequence:

1. In the sophomore or junior year, the student will complete three required courses: an introduction to the methods of literary analysis (BC 3193 *Critical Writing*), and an introduction to literary works of the Renaissance and the Enlightenment (BC 3159-BC 3160 *The English Colloquium*); for possible substitutions, see BC 3159, below.
2. In addition, she will complete five advanced courses so distributed as to extend her knowledge of English and American literature of different periods. At least two of these must be in literature before 1900 (ETR BC 3136, 3137, BC 3140y, Sec.1; BC 3141, BC 3154-BC 3180). She may select two of the five from courses BC 3103-BC 3145.
3. As a senior, she will complete advanced work in two seminars (BC 3997, BC 3998). Seniors concentrating in Theatre or Writing will normally substitute the Special Project in Theatre or Writing (BC 3996) for one of the required seminars. Other qualified senior majors may request permission to substitute Independent Study for one of the seminars (see BC 3999, below).

REQUIREMENTS FOR THE MINOR

A minor consists of at least five English courses: one from either Chaucer (BC 3154 or BC 3155), Shakespeare (ETR BC 3136, ENG BC 3163, or BC 3164), or Milton (BC 3167); two additional courses in literature before 1900 (ETR BC 3137; BC 3140y, Sec. 1; BC 3141; and BC 3154-BC 3180); and two electives.

CONCENTRATIONS IN THE MAJOR

American Literature

In addition to ENG BC 3159, 3160 (or appropriate substitutes) and 3193, an American concentration consists of either 3179 or 3180, either 3181 or 3182, one other American literature course, and one senior seminar with a focus on American literature. (The department requires two senior seminars for the major.) Of the remaining electives, one must be in British literature before 1900.

Theatre

Students interested in a Theatre concentration should consult Professor Partridge (Room 506 Milbank) or Professor Denison (Room 412 Barnard). A Theatre concentration consists of four courses: three courses, either two in *Theatre History* (THR BC 3150, 3151) and one dramatic literature seminar, **OR** one theatre history course and two dramatic literature seminars; and a fourth course that is either *Special Project in Theatre* (ENG BC 3996) or *Thesis Course: History, Dramaturgy, Criticism* (THR BC 3998). These four courses will count in place of two electives and one Senior Seminar in the regular English major.

Writing

Students interested in a writing concentration should submit a portfolio of their work to the director of Creative Writing by the end of their junior year. A writing concentration consists of at least four courses: two writing courses (BC 3105-3113); a third course in writing combined with a *Special Project in Writing* (BC 3996) or *Independent Study* (BC 3999); and a fourth course, either a literature course (in English or an other language), a creative writing course, or ARS BC 3031. These four courses will count in place of two electives and one Senior Seminar in the regular English major.

COURSES OF INSTRUCTION

INTRODUCTORY

ENG BC 1201x, y
First-Year English

Close examination of texts and regular assignments in composition, designed to help students read critically and write effectively. Sections of the course are grouped in four clusters: I. American Identities; II. The Creative Imagination; III. Travel and Discovery; IV. Writing Women's Lives. Readings are primarily in literature, but materials from other sources will also be included.—Director and Staff
Prescribed for all first-year students. May not be taken for P/D/F.

3 points. Consult department bulletin board for section times.

ENG BC 1202x
Studies in Writing

Intensive practice in writing, emphasizing drafts, revision, peer response, and individual conferences. Consideration of the conventions of English style, usage, and grammar through both informal and formal writing, culminating in expository essays. Recommended for (but not limited to) first-year students and students

whose first language is not English.
—Members of the Department
Permission of the instructor required.
May be taken only for P/D/F.
3 points.

WRITING

Registration in each course is limited and the written permission of the instructor is required; for courses 3105-3113, submit a writing sample in advance. File signed departmental registration blanks with Mrs. Budelis (417 Barnard). Two writing courses may not be taken concurrently.

ENG BC 3101x
The Writer's Process: A Seminar in the Teaching of Writing

An exploration of theory and practice in the teaching of writing, designed for students who plan to become Writing Fellows at Barnard (see page 40). Students will read current theory and consider current research in the writing process and engage in practical applications in the classroom or in tutoring. —N. Piore
Application process and permission of the instructor.
3 points.

ENG BC 3103x, 3104y**Essay Writing**

English composition above the first-year level. Techniques of argument and effective expression. Weekly papers. Individual conferences. Some sections have a special focus, as described. English as a second language (ESL) is offered each term in Section 4 for students who want an upper-level writing course. Journalism and Popular Writing offered in the Spring. '97-'98: F. Brady, P. Ellsberg, Q. Prettyman, J. Runsdorf, A. Schneider, M. Vandenburg; '98-'99: Instructors TBA.

3 points.

ENG BC 3105x, 3106y**Fiction and Personal Narrative**

Short stories and other imaginative and personal writing. —x: E. Dalton; y: T. Szell

3 points.

ENG BC 3107x, 3108y**Experiments in Writing**

Practice in writing short stories and autobiographical narrative, with discussion and close analysis in a workshop setting. '97-'98: x: L. Shea; y: S. Schulman; '98-'99: Instructors TBA.

3 points.

ENG BC 3110x, y**Poetry Writing**

Varied assignments designed to confront the difficulties and explore the resources of language through imitation, allusion, free association, revision, and other techniques. —C. Rankine

3 points.

ENG BC 3111x, 3112y**Story Writing**

Advanced work in writing, with emphasis on the short story. '97-'98: x: D. Plante; y: T. Davis; '98-'99: M. Gordon

Prerequisite: Some experience in the writing of fiction. Conference hours to be arranged.

3 points.

ENG BC 3113x**Playwriting**

A workshop to provoke and investigate dramatic writing. —Instructor TBA.

3 points.

SPEECH

Registration in each course is limited and permission of the instructor required.

ENG BC 3121**Uses of Speech**

An introduction to effective oral presentation, including interviewing and public speaking. Emphasis on self-presentation, research, organization, and audience analysis. —P. Denison

3 points.

THEATRE

Registration in each course is limited. Students may sign up for theatre courses outside the Theatre Office, Room 507 Milbank Hall. See Theatre Department course descriptions for *Theatre History* (THR BC 3150, 3151), *Seminar on Women in Theatre* (THR BC 3140), *Drama, Theatre, and Theory* (THR BC 3166), and *Senior Seminar: Modern American Drama and Performance* (THR BC 3888).

ETR BC 3135**Seminar on 19th-Century Social Drama**

Late 19th-century social drama in the context of earlier melodrama. The shifting relationship between the visual and the verbal in the theatre and its implications for social and theatrical change. Playwrights include Jerrold, Scribe, Mowatt, Taylor, Robertson, Ibsen, Pinero, Wilde, Shaw, and Robins. —'98-'99: P. Denison

4 points.

III H

ETR BC 3136y**Seminar on Shakespeare in Performance**

The dramatic text as theatrical event. Differing performance spaces, production practices, and cultural conventions promote differing modes of engagement with dramatic texts. We will explore Shakespeare's plays in the context of actual and possible performances from the Renaissance to the 20th century. —P. Denison

Enrollment limited to 20 students.

4 points.

I H

ETR BC 3137**Seminar on Restoration and 18th-Century Drama**

Performance conventions, dramatic techniques, and cultural contexts from 1660 to 1800. Playwrights include Wycherley, Behn, Pix, Centlivre, Etherege, Congreve, Gay, Goldsmith, and Sheridan. —'98-'99: P. Denison

Enrollment limited to 20 students.

4 points.

III H

LANGUAGE AND LITERATURE

ENG BC 3140x

Seminars on Special Themes

Registration may be limited.

3 points.

1. The Enchanted Imagination

Romantic and post-Romantic fantasy that examines the transformative role of imagination in aesthetic and creative experience, challenges accepted boundaries between the imagined and the real, and celebrates otherness and magicality in a disenchanted world. Authors include Blake, Coleridge, Keats, Mary Shelley, Tennyson, Carroll, Tolkien, LeGuin, Garcia Marquez.

—J. Pagano I H

BC 3140y

1. Renaissance Women Writers

An exploration of women writers from Christine de Pizan in 15th-century France to Sor Juana Ines de la Cruz in 17th-century Mexico. Works on love, sex(es), society, power, and God by Gaspara Stampa, Marguerite de Navarre, Louis Labe, Teresa d'Avila, Queen Elizabeth, Mary Wroth, Aphra Behn, and others. —A. Prescott and P. Loscocco I H

2. Explorations of Black Literature:
1760-1890

Poetry, prose, fiction, and nonfiction, with special attention to the slave narrative. Includes Wheatley, Douglass, and Jacobs, but emphasis will be on less familiar writers such as Brown, Harper, Walker, Wilson and Forten. Works by some 18th-century precursors will also be considered. —Q. Prettyman I H

3. Introduction to Film and Film Theory

A survey of the history of American and international film and an introduction to film theory, including feminist, psychoanalytic, structuralist and post-structuralist methodologies. Film contextualized through theory, and through the lens of popular culture (advertising, television, music videos) and genre (the Hollywood film, women's film, action movies, westerns, sci-fi, documentary, "Third World" and "alternate" film, etc.). Weekly screening. —R. Hamilton H

Offered in Spring 1999. Other sections for 1998-99 to be announced.

1. Fable and Fantasy

Selected works by 19th- and 20th-century authors. Lewis Carroll, Ursula LeGuin, C.S. Lewis, and others. Religious and philosophical fable; nonsense and paradox; other worlds.

—A. Prescott I H

ENG BC 3141x, 3142y

Major English Texts

A chronological view of the variety of English literature through study of selected writers and their works. Autumn: Chaucer through Dryden. Spring: Swift through Eliot. —M. Ellsberg
Guest lectures by members of the department.

3 points. III H

English-Women's Studies EWS BC 3144x

Minority Women Writers in the United States

Literature of 20th-century minority women writers in the United States, with emphasis on works by Asian, Black, Hispanic, and Native American women. The historical and cultural as well as the literary framework. —Q. Prettyman
Permission of the instructor required.

3 points. I H

ENG BC 3154x

The Early Chaucer

Chaucer's innovations with major medieval forms: lyric, the extraordinary dream visions, and the culmination of medieval romance, *Troilus and Criseyde*. Approaches through close analysis, feminist and historicist interpretation. Background readings in medieval life and culture.

See ENG BC 3156y, Spring '99.

3 points. III H

ENG BC 3155x

Canterbury Tales

The foundation of early modern literature. Chaucer as inheritor of late-antique and medieval conventions, and as founder of the later English literary tradition. Formalist, historicist, and feminist approaches. —C. Baswell

3 points. Offered in Autumn '97. III H

ENG BC 3156y

Major Works of Geoffrey Chaucer

A one-semester survey of the major works of Chaucer: dream visions, *Troilus and Criseyde*, and selected *Canterbury Tales*. Related medieval texts. —C. Baswell

3 points. Offered in Spring '99. III H

ENG BC 3158x**Medieval Literature**

Major works of the period, English and Continental, with particular emphasis on shifting notions of "selfhood," agents of transformation, epistemology (dreams, revelations, confession, and the limits of authority), and the bliss and travail of embodiment. —T. Szell

3 points. Offered in Autumn '98.

I H

ENG BC 3159x-3160y**The English Colloquium**

Major writers and literary works of the Renaissance and the Enlightenment examined in terms of leading ideas in those periods.

Required of majors in the junior year. Any student who wishes may substitute 3 courses, ETR BC 3137, 3141, 3163 or 3164, or ETR BC 3136, 3165-3169; and BC 3173-3174 or 3179. One of these may also count toward satisfying the "before 1900" requirement.

4 points.

1. Imitation and Creation

New ideas of the mind's relation to the world. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style.

—x: A. Prescott, y: J. Basker

2. Skepticism and Affirmation

The development of modern concepts of subjectivity and authority. The rise of art and the artist. Humanism, Rationalism, and Empiricism. Ethics and evil. The exploration of limits, and the limitless. —M. Jaanus

3. Reason and Revelation

Humanism, reformation, and revolution: the possibilities of human knowledge; sources and strategies for secular and spiritual authority; the competing demands of idealism and experience. —x: E. Dalton; y: R. Hamilton

ENG BC 3163x, 3164y**Shakespeare**

A critical and historical introduction to Shakespeare's comedies, histories, tragedies, and romances. —'97-'98: x: TBA; y: P. Denison; '98-'99: P. Platt

3 points.

III H

ENG BC 3165y**The English Renaissance**

Continuities, recoveries, and innovations from Thomas More to Sidney and Spenser; humanism, love poetry, the literature of history and exploration, wit and humor, religious conflict. —A. Prescott

3 points. Offered in Spring '99.

III H

ENG BC 3166x**Seventeenth-Century Prose and Poetry**

God, love, sex, and politics in the literature of the late English Renaissance. Works by Donne, Jonson, Wroth, Herbert, Herrick, Milton, Philips, Marvell, Bunyan, and Behn. —P. Loscocco

3 points.

III H

ENG BC 3167y**Milton**

Milton's career from his early poems and prose to *Paradise Lost* and beyond. Topics include poetic vocation, political controversy, sex and gender, and Biblical hermeneutics. —P. Loscocco

3 points.

III H

ENG BC 3169y**Renaissance Drama: Kyd to Ford**

Major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe and Middleton. —P. Platt

3 points. Offered in Spring '99.

III H

ENG BC 3171x**The Culture of the Novel**

Divergent forms of 19th-century novelization: the amorous, ethical, religious, social, and philosophical fictions. Focus on the Romantic-Realistic novel and its legacy. —M. Jaanus

3 points.

I H

ENG BC 3173x**Eighteenth-Century Literature, 1660-1740**

Tradition and innovation in satire, drama, the periodical essay, and the novel; readings in Dryden, Rochester, Behn, Pope, Swift, Defoe, Richardson, Fielding, and Gay. —J. Basker

3 points. Offered in Autumn '98.

III H

ENG BC 3174x**The Age of Johnson, 1740-1800**

Tradition and innovation in a variety of forms, including works by Johnson, Boswell, Goldsmith, Burke, Fielding, Sterne, Wollstonecraft, Burns, and Blake, and other works by women and working-class writers. —J. Basker

Offered in Autumn '97 as W 4301x.

3 points.

III H

ENG BC 3176x**The Romantic Era**

Two generations of Romantic writers in their historical and intellectual context, with reference to contemporary movements in philosophy and art. Special attention to the relation between revolution and romance. Authors include Rousseau, Sade, Blake, Wordsworth, Coleridge, Byron, Mary and

P. B. Shelley, Keats, and Burney. —R. Hamilton
3 points. III H

ENG BC 3177y
The Victorian Age in Literature

The origins of modern culture in Victorian England: urbanization, industrialism, evolution, and the women's movement, as seen in works by Dickens, Eliot, Ruskin, Newman, Arnold, and others. —'98: H. Henderson
3 points. III H

ENG BC 3178x
Victorian Poetry and Criticism

Poetry, art, and aesthetics in an industrial society, with emphasis on the role of women as artists and objects. Poems by Tennyson, Arnold, Christina and D. G. Rossetti, Swinburne, and Elizabeth and Robert Browning; criticism by Ruskin, Arnold, and Wilde; paintings by the Pre-Raphaelites and Whistler; photographs by J. M. Cameron. —W. Sharpe
3 points. III H
See also AMS 3002y *Interdisciplinary Approach to American Literature*.

ENG BC 3179x
American Literature to 1800

The formation and development of American literary traditions. Writers include Bradford, Shepard, Cotton, Bradstreet, Taylor, Rowlandson, Edwards, Wheatley, Franklin, Woolman, Brown. —L. Gordis
3 points. III H

ENG BC 3180y
American Literature, 1800-1870

The development of a national literature from the late Republican period through the Civil War. Writers include Irving, Emerson, Poe, Fuller, Thoreau, Douglass, Stowe, Jacobs, Whitman, Dickinson. —L. Gordis
3 points. III H

ENG BC 3181x
American Literature, 1871-1945

American literature in the context of cultural and historical change. Writers include Twain, James, DuBois, Wharton, Cather, Dreiser, Fitzgerald, Faulkner, Hurston. —'97: J. Kassanoff. '98-'99: TBA.
3 points. III H

ENG BC 3182y
American Fiction

American fiction from the 18th to the early 20th centuries. Writers include Rowson, Hawthorne, Melville, Alcott, Twain, James, Wharton, Faulkner, Wright. —'98: J. Kassanoff; '98-'99: TBA.
3 points. III H

ENG BC 3184x
House and Home in American Culture

An interdisciplinary approach to the images and discourses of American domestic space, from Thoreau's *Walden* to postmodern suburbia. Sites include the plantation, the farm, the nomadic home, the tenement, the urban mansion, the tract house, and the apartment. Readings from Jacobs, Howells, Wharton, Petry, Roth, Cheever, and others. '97: J. Kassanoff and W. Sharpe; '98: W. Sharpe
3 points. III H

ENG BC 3185y
Modern British and American Poetry

The poetry of three decades, 1915-25, 1955-65, and 1980-90. Poems by Yeats, Eliot, Williams, Millay, Larkin, O'Hara, Rich, Hughes, and others. '98: W. Sharpe; '99: P. Ellsberg
3 points. III H

ENG BC 3186
Modern Drama

Modern drama in the context of historical and cultural developments such as Marxism, feminism, and psychoanalysis. Works by Ibsen, Chekov, Pirandello, O'Neill, Genet, Pinter, Churchill, and others. —'98-'99: Instructor TBA.
3 points. I H

ENG BC 3187x
American Writers and Their Foreign Counterparts

Developments in modern fiction as seen in selected 19th- and 20th-century American, European, and English works by Flaubert, Dostoevski, James, Proust, Gide, Woolf, Faulkner, and others. —E. Dalton
3 points. I H

ENG BC 3188y
The Modern Novel

Works by James, Conrad, Ford, Forster, Lawrence, Joyce, Woolf, and others. '98: Instructor TBA; '99: M. Gordon
3 points. III H

ENG BC 3189x
Postmodern Literature

Writers since 1945, mostly English and American, and concepts of postmodern culture. Readings include Beckett, Borges, Nabokov, Rhys, Barthelme, Pynchon, and others. —Instructor TBA.
3 points. Offered in 1998-99. I H

ENG BC 3190y
Global Literature in English

The production of literary texts in English by a

variety of people of different countries, races and cultures; the encounter of Western and non-Western heritages; the clash of legacies and ideologies; mutual revisions and reevaluations. '98: B. Stewart; '99: M. Jaanus
3 points. I H

ENG BC 3191x, y
The English Conference: The Lucyle Hook Guest Lectureship

Various topics presented by visiting scholars in courses that will meet for three or four weeks during each semester. Topics, instructors, and times will be announced by the department. Students must attend all classes to receive credit for this course. —Visiting faculty
To be taken only for P/D/F.
1 point.

ENG BC 3193x, y
Critical Writing

The course provides experience in the reading and analysis of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. Required of all majors before the end of the junior year. Sophomores are encouraged to take it in the Spring term even before officially declaring their major. Transfer students should plan to take BC 3193 in the Autumn term. —Staff
Registration in each section is limited.
4 points.

ENG BC 3194
Critical and Theoretical Perspectives on Literature
3 points. H

1. A History of Criticism

A history of literary criticism from its emergence in Antiquity to the New Criticism of the 1950s. Readings may include Aristotle, Longinus, Horace, Sidney, Pope, Shelley, Brooks, and Frye. —'97x: Cary Plotkin

2. Literary Theory

A history of literary theory from the "grand theories" of the 19th century (Darwin, Marx, Freud, and Nietzsche) into modernism and postmodernism. Readings include Gramsci, Foucault, Bourdieu, Derrida, de Man, Barthes, Baudrillard, Butler. —'98-'99: Instructor TBA.

3. Psychoanalytic Approaches to Literature

Literary expression in the light of psychoanalytic thought. Psychoanalytic writings by Freud, Jung, Melanie Klein, and Lacan; literary works may include texts by Shakespeare, Dostoevsky, Dickens, Kafka, Lawrence, Jean

Rhys, and others. —'97x: E. Dalton

4. Postmodern Texts and Theory

Literary and theoretical postmodern texts and their revolutionary redefinition of certain fundamental concepts: the image, the word, pleasure, love, and the unconscious. —'99y: M. Jaanus.

ENR BC 3810y
Literary Approaches to the Bible

Interpretive strategies for reading the Bible as a work with literary, historical, and social dimensions. Considerations of poetic and rhetorical structures, narrative techniques, and feminist exegesis will be included. Topics for investigation include the influence of the Bible on later literature, combined with the more formal disciplines of biblical studies. —A. Segal, (Religion); P. Ellsberg, (English)

Prerequisite: Permission of instructors. Limited to 20.

4 points. I H

ENG BC 3996x, y
Special Project in Theatre or Writing

Senior majors who are concentrating in Theatre or Writing and have completed two courses in writing or three in Theatre will normally take the *Special Project in Theatre or Writing* (3996x,y) in combination with an additional course in their special field. This counts in place of one of the Senior Seminars. In certain cases, *Independent Study* (BC 3999) may be substituted for the Special Project.

Permission of the instructor and of the department chair is required.

1 point.

ENG BC 3997x, 3998y
Senior Seminars: Studies in Literature

Required of all majors, these seminars are designed to broaden knowledge of periods, writers, works, genres, and theories through readings, discussion, oral reports, and at least one significant research paper.

Written permission of the instructor required.

Enrollment limited to seniors.

4 points.

ENG BC 3997x
Senior Seminars: Studies in Literature (Offered in Autumn '97)

1. Epic and Romance

Epic and romance, from the classical period to the 20th century, and study of their competition and mutual influence. Readings from *Beowulf*, *The Aeneid*, medieval romances, Spenser, Milton, English Romantic poets, the novel, science fiction. —C. Baswell

2. Wit and Humor in the Renaissance

Focusing on England, but with some classical and continental texts. Looks at jest-books, fiction, comedy, verse satire, parody, and word-play. Some attention to wit as self-polishing and cultural commentary. Authors include More, Shakespeare, Donne, Nash, Rabelais, Marguerite de Navarre, Cicero, Lucian.

—A. Prescott

3. Women, Men, and the 18th-Century Novel

How contemporary debates about the sexual and gendered nature of writing and society shaped the novel's emerging form and focus. The rise of a feminist tradition in English letters. Works by Behn, Defoe, Richardson, Sterne, Wollstonecraft, Austen, and others.

—P. Loscocco

4. The Family in Turn-of-the-Century American Fiction

An interdisciplinary examination of the changing cultural dynamics of the American family. Considers issues such as the market, immigration, "race," reproductive politics, and nativism. Authors include James, Wharton, Cahan, Crane, Hopkins, Gilman, Cather, and Faulkner. —J. Kassanoff

5. Victorian and Modern Drama

Drama in transition. Changing social structures and dramatic structures at the turn of the century. The relationship between convention and invention in the plays of George Bernard Shaw, Oscar Wilde, Arthur Pinero, Elizabeth Robins, Cicely Hamilton, and others. —P. Denison

6. Body and Language

An examination of major discourses on corporeality and the body's cultural significance.

—M. Jaanus

ENG BC 3998y

Senior Seminars: Studies in Literature
(Offered in Spring '98)

1. Medieval Images of Women

The cultural and literary construction of women in high medieval religious and chivalric narrative and verse. Some attention to historical context, the problematics of representation, female agency, and power, and women as complex objects of desire and communal fantasy in light of a variety of contemporary critical approaches. Authors and texts include Chaucer, *Sir Gawain and the Green Knight*, Julian of Norwich, Margery Kempe, and Henryson. —T. Szell

2. Literature and Love

Romantic love as a literary-historical phenomenon and personal experience. The romance of writing, the reveries of the solitary lover, the languages of love. Authors include Abelard, Lafayette, Richardson, Rousseau, Sade, Inchbald, Austen, and Byron, as well as various theoreticians of desire (Plato, Freud, Foucault, Barthes).

—R. Hamilton

3. The City in Literature: Modernity and Ethnicity in New York

How 20th-century New Yorkers have created a self-consciously modern *and* ethnic brand of American culture. Emphasis on the literary and artistic representation of assimilation, alienation, race, and cultural difference amid the city.

Works by Wharton, James, Yeziarska, Hurston, Hughes, DiDonato, Jen, and others. —W. Sharpe

4. Modernist Visions: Conrad, Eliot, and Woolf

Visions of hearts of darkness and light, overseas and at home in London, in the first decades of the 20th century. Gender divisions; images of fragmentation and reconstruction. —C. Brown

5. Representations of Black Womanhood

An exploration of the emergence of black women in 19th- and 20th-century American fiction and poetry. We will discuss the literary construction of black womanhood since the 1860s with particular attention to social and historical contexts. Authors will include Jacobs, Harper, Hopkins, Chopin, Toomer, Larsen, Hurston, Stein, and Morrison. —C. Rankine

6. To Be Announced

—Instructor TBA.

ENG BC 3997x

Senior Seminars: Studies in Literature
(Offered in Autumn '98)

1. Studies in Tragedy: The Death of the Hero

Greek, Elizabethan, classical French, and modern works, read in conjunction with important theories of tragedy: Aristotle, Nietzsche, Frazer, Freud, and Artaud. —E. Dalton

2. Late Shakespeare: Visions and Revisions

Shakespeare's last plays as both experimental and revisionary. Topics will include aesthetics, philosophy, politics, sexuality, and gender, as well as 20th-century criticism's reconstruction of these final plays. Probable texts: *Measure for Measure*, *Othello*, *King Lear*, *Antony and Cleopatra*, *The Winter's Tale*, and *The Tempest*. —P. Platt

3. Contract and Accident

Considers the recurrent interdependent paradigms of contract and accident which underpin key Romantic texts. While social theorists like Rousseau, Smith, and Bentham explored notions of obligation and order, authors such as Wordsworth and Austen were interested in the subversive, disordering figure and the reality of the accidental. Special attention to formation of the ideal of free will, as well as the notions of the individual and the unconscious. —R. Hamilton

4. Nineteenth-Century American Women Writers

In 1885, Nathaniel Hawthorne complained to his publisher that America was “wholly given over to a d--d mob of scribbling women.” Considers the literary productions of some of these women, with special attention to works that consider the status of women and the challenges facing women artists. Authors include Rowson, Fuller, Stowe, Stoddard, Alcott, Phelps, Dickinson, and Freeman. —L. Gordis

5. Lyrical Prose

Prose works shaped primarily or importantly by the lyric impulse: image making, the creation of an “I,” the expression of emotions. We will read works by Burton, Browne, Ruskin, Newman, Beckett, Woolf, Nabokov. —M. Gordon

6. Body and Language

See page 152.

ENG BC 3998y

Senior Seminars: Studies in Literature
(Offered in Spring 1999)

1. Medieval Literature

—TBA.

2. Race and Gender in the Age of Johnson

Issues of race and gender in the works of Samuel Johnson and other English writers of the period 1740-1800, including Laurence Sterne, Elizabeth Carter, Charlotte Lennox, Phillis Wheatley, William Blake, Olaudah Equiano, Frances Burney, Ignatius Sancho, John Stedman, Hannah More, Mary Wollstonecraft, and others. —J. Basker

3. Victorian and Modern Drama

See page 152.

4. Modernist Visions: Conrad, Eliot, and Woolf

See page 152.

5. Representations of Black Womanhood

See page 152.

6. To Be Announced

—Instructor TBA.

ENG BC 3999x, y Independent Study

Senior majors who wish to substitute Independent Study for one of the two required Senior Seminars should consult the department chair. Permission is given only to students who present a clear and well-defined topic of study, who have a department sponsor, and who submit their proposals well in advance of the semester in which they will register.

Permission of the instructor and of the department chair is required.

4 points.

Associate Professor: Stephanie Pfirman (Chair)

Assistant Professor: Martin Stute

Senior Lecturer: Peter Bower

Laboratory Directors: Joseph Liddicoat, Diane Dittrick

Adjunct Professors: Roseanne D'Arrigo, Anthony Del Genio, Cynthia Rosenzweig

Environmental Science provides a scientific basis for management of earth systems. It focuses on the interaction between human activities, resources, and the environment. As human population grows and technology advances, pressures on earth's natural systems are becoming increasingly intense and complex. Environmental Science is an exciting field where science is used to best serve society.

The curriculum recognizes the need for well-trained scientists to cope with balancing human requirements and environmental conservation. Majors acquire an understanding of earth systems by taking courses in the natural sciences, as well as courses investigating environmental stress. Students learn to critically evaluate the diverse information necessary for sound environmental analysis. Courses foster an interdisciplinary approach to environmental problem-solving.

Internships or some type of work or field experience are extremely valuable in preparing you for a career in Environmental Science. You might want to consider a semester or summer program at the Biosphere 2 Center or some other field program. In addition, all students majoring in Environmental Science are urged to take a course where you gain experience using spreadsheets, statistics, and data analysis on computers.

Students wishing to go on to graduate school or careers in the earth and physical sciences should take at least two semesters each of calculus, physics, and chemistry. Those interested in graduate school or careers in biological/chemical fields are recommended to take calculus as well as upper-level courses in biology and chemistry, and may wish to consider enrolling in minors in these fields. Students interested in pursuing further work in environmental policy and economics should consider taking a minor in these departments, or at least taking courses in statistics (and/or calculus) and economics. Students interested in environmental law, policy, teaching, and journalism may also wish to consider a double major, or a major/minor combination in relevant fields.

REQUIREMENTS FOR THE MAJOR

Class of 1998-99: See department for major requirements.

Class of 2000 and beyond: Requirements follow:

Part A. The following 4 courses with labs: Earth's Environmental Systems: Climate ENS V 2100, Earth's Environmental Systems: Solid Earth ENS V 2200, General Chemistry I CHE BC 1601, Physiology, Ecology, and Evolutionary Biology BIO BC 2002 and Biodiversity Laboratory BIO BC 2003.

Part B. At least 2 other courses in chemistry, physics, and/or biology (check with the department for a list of approved courses).

Part C. At least 2 courses in calculus, statistics, data analysis, and/or economics (check with the department for a list of approved courses).

Part D. Five courses in environmental science and decision-making (check with the department for a list of approved courses).

Part E. Environmental Science Senior Seminar ENV BC 3800 (provides credit for the

senior thesis). *We highly recommend starting the thesis in the fall of the senior year through Environmental Research ENV BC 3997.*

REQUIREMENTS FOR THE MINOR

Students wishing to minor in Environmental Science must have a plan approved by the Environmental Science Department chair. At least 5 courses are required, including 2 laboratory science courses (such as ENV BC 1001, BC 1002; ENS V 2100, V 2200, V 2300) and 3 electives that form a coherent program in conjunction with the student's major field. In some cases, courses in other sciences can be substituted with approval of the chair.

Students wishing to minor in Environmental Science through a semester at Biosphere 2 are required to consult with the Barnard Environmental Science Department chair before going, to receive permission for this option. Upon return, a follow-up elective is required that preferably forms a coherent program with the Biosphere 2 courses and/or their major field. See the department chair for guidance on selection of appropriate courses.

COURSES OF INSTRUCTION

For a complete, updated list of courses, consult the department at the beginning of the semester.

ENV BC 1001x, 1002y **Environmental Science I, II**

Global and local capacities to satisfy human demands of land, water, energy, minerals, and waste disposal. *Fall term:* Physical processes of the atmosphere, pedosphere, and lithosphere, and their vulnerabilities in human activities. Basic principles of ecology, the structure and function of ecosystem energy flow and nutrient cycling, rocks and minerals, weathering and erosion, solid waste and New York City, incineration, landfills, and recycling. Required laboratory sections involve sediment grain size analysis, owl pellet dissection, vole skeleton assembly, and compass pacing. *Spring term:* Ecosystem analysis of local and global processes in the biosphere, geographic ecology, and biome classification. Environmental disturbances by agricultural and urban-industrial processes, remedial measures, and plans for a future sustainable ecology are considered. —P. Bower

Prerequisites: Passing grade on Quantitative Reasoning test or equivalent. Enrollment limited. BC 1001 required to take 1002. Students must sign up for lab sections in 328b Milbank during the program-planning period of the previous term. Laboratory fee: \$30.

4.5 points. Lecture. Laboratory: One session of 3 hours per week.

ENV V 2100x, y **Earth's Environmental Systems: Climate**

Formation of winds, storms, and ocean currents. Recent influence of human activity: global warming, water pollution. Laboratory exploration of topics through demonstrations, experimentation, computer data analysis, and modeling. —A. DelGenio, S. Pfirman, M. Stute, TBA

Prerequisites: High school algebra. Recommended preparation: High school chemistry and physics. Enrollment limited.

4.5 points. Lecture. Laboratory.

ENS V 2200x **Earth's Environmental Systems: Solid Earth**

Plate tectonics: Origin and development of continents, ocean basins, mountain systems on land and sea. Earthquakes, landslides, volcanoes, diamonds, oil. Land-use planning for resource development and conservation. Laboratory exploration of topics through demonstrations, experimentation, computer data analysis, and modeling. —W. Menke, K. Kastens, W. Ryan

Prerequisite: ENS V 2100. Enrollment limited.

4.5 points. Lecture. Laboratory.

ENS V 2300x **Earth's Environmental Systems: The Life System**

Role of life in biogeochemical cycles, relationship of biodiversity and evolution to the physical earth, vulnerability of ecosystems to environmental change: causes and effects of extinctions through geologic time (dinosaurs and mammoths) and today. Exploration of topics through laboratories, demonstrations, computer data analysis, modeling, and field trips. —P. Olsen, TBA

Prerequisite: ENS V 2100. Enrollment limited.

4.5 points. Lecture. Laboratory.

ENV BC 3014x **Field Methods in Environmental Science**

Problem-oriented field methods course provides hands-on experience with tools and observation methods in a variety of outdoor environments.

Sampling and measurement techniques for air, water, soil, rock, flora, and fauna. Field and laboratory work, data interpretation and analysis.

—P. Bower

Enrollment limited; permission of the instructor required. Four required field trips.

3 points.

ENV BC 3015y

The Earth's Carbon Cycle

The carbon cycle, with emphasis on how human activities perturb natural cycles.—W. Broecker

Prerequisites: Chemistry BC 1601 and Environmental Science BC 1001, BC 1002 or the equivalent, or permission of the instructor. Alternate years.

3 points.

ENV BC 3016y

Environmental Measurements

Methods used in analysis of environmental samples for monitoring and research purposes.

Standard and advanced techniques of air, water, sediment, and soil analysis will be covered, including spectrometric and chromatographic methods.—P. Bower

Prerequisites: CHE BC 1601 or the equivalent and permission of the instructor. Enrollment limited.

3 points.

ENV BC 3017x

Environmental Data Analysis

Analysis and interpretation of environmental data. Acquisition and processing of environmental information, assessment of spatial and temporal variability, use of computers for analysis and display. Multidisciplinary approaches to environmental problem-solving.—S. Pfirman, M. Stute, TBA

Prerequisite: One year of college science or ENS V 2100 or permission of the instructor.

3 points.

ENV BC 3019x

Energy Resources

Energy sources, present and future demand, national and international resources. Environmental and policy implications of energy production and use. Present and potential use of fossil fuels (coal, oil, natural gas), nuclear fission, fusion, biomass, hydropower; wind, solar, and geothermal energy.—S. Pfirman

Prerequisites: One year of college science or permission of the instructor. Alternate years.

3 points.

ENV BC 3021y

Forests and Environmental Change

Exploration of forests in global change: historical

and future perspectives. Resources, including biodiversity, medicinal/ethnobotany; conservation and management strategies; role in carbon cycle.—R. D'Arrigo

Prerequisites: One year of college science or permission of the instructor. Alternate years.

3 points.

ENV BC 3022x

Environmental Case Studies

Investigation of the scientific and social aspects of particular cases that illustrate major environmental problems.—M. Stute

Prerequisites: One year of college science, ENS V 2100, or permission of instructor. Alternate years.

3 points.

ENV BC 3023y

The Hudson River Environment

An integrated examination of the relationship between system function and human habitation for one of the great rivers of the world. Geologic origins, watershed development, estuarine dynamics, habitats, fisheries, industrialization, and transformation of the landscape. Special topics include: PCBs and radionuclides, heavy metals, the Storm King controversy. Three field trips.—P. Bower

Prerequisites: One year of college science or permission of the instructor. Enrollment limited. Alternate years.

3 points.

ENV BC 3024x

Oceanography

Ocean circulation, waves, tides, structure and function of coastal seas, deltas, estuaries, wetlands, beaches, marine sediments. Local and international concerns about ocean pollution. Chemical and biological oceanography, nutrients. Influences of sea level change and storms on coastal zone management.—S. Pfirman

Prerequisites: One year of college science or permission of the instructor. Alternate years.

3 points.

ENV BC 3025y

Hydrology

Structure and properties of water and the hydrologic cycle, including atmospheric waters, lakes, rivers, glaciers, groundwater. Availability and demand for freshwater resources. Environmental problems associated with the contamination of drinking water.—M. Stute

Prerequisites: ENS V 2100, physics, or permission of the instructor. Alternate years.

3 points.

ENV BC 3030x

The Atmosphere: Meteorology and Air Pollution

Introduction to atmospheric science. Processes controlling the structure and dynamics of the atmosphere, general atmospheric circulation, and weather. Sources, transport, and effects of air pollution on regional and local scales.

—A. Del Genio

Prerequisites: ENS V 2100 or permission of the instructor. Alternate years.

3 points.

ENV BC 3032y

Global Land Use and Habitability

Human transformation of the terrestrial environment since Paleolithic times. Physical process involved in human-environment interactions. Guidelines for sustainable development using present and past examples of environmental use and abuse. —C. Rosenzweig

Alternate years.

3 points.

ENV BC 3033y

Waste Management

Liquid and solid waste management. Cradle-to-grave analysis of product and waste streams. Municipal solid waste, landfills, incineration and recycling, hazardous waste, sewage, and sewage treatment. Increase in waste generated by growing populations, international equity in generation and disposal of waste, public health, and environmental risks of different disposal methods. Restrictions on disposal options; rising disposal costs. —P. Bower

Alternate years.

3 points.

ENV BC 3035x

Environmental Hazards and Disasters

Prediction and avoidance of catastrophic events that originate in natural and technologic systems. Response strategies to minimize damage before, during, and after events such as floods, hurricanes and nuclear breakdowns. Environmental impact of war. —P. Bower

Alternate years.

3 points.

ENV BC 3040x

Environmental Law, Policy, and Decision-making

Local to international environmental laws and development of environmental policy. Risk management, land-use planning, and the role of industry, academia, and government in environmental decision-making, economic analysis and policy-making, the interplay of common and public law, environ-

mental and toxic torts, corporate law, contracts and property. Criminal law in environmental cases, environmental rights, wetlands, the Storm King controversy, endangered species and the Spotted Owl, air and water pollution. —P. Bower

Alternate years.

3 points.

ENV BC 3800y

Senior Seminar

Guided, independent, in-depth research culminating in the senior essay. Weekly seminar to review work in progress and share results through oral and written reports. Discussions of current events. —Staff

Senior majors (juniors with permission of the instructor).

Provides credit for the senior thesis.

4 points.

ENV BC 3997x, 3998y

Environmental Research

Advanced independent research under the supervision of a faculty member for the purpose of preparing the senior thesis. —Staff

Variable points. Permission of major adviser required.

May be used in the Fall to prepare for ENS BC 3800y, or substituted for ENS BC 3800y in the case of January graduates.

ENV BC 3999x, y

Problems and Projects in Environmental Science

Advanced projects for students who have adequate backgrounds to work independently with guidance from a member of the faculty. —Staff

Permission of the chair required. Does not provide major credit. Variable points to a maximum of 6.

The following courses offered by other departments at Barnard and Columbia are of special interest to students of Environmental Science. Students should consult the Barnard Environmental Science Department and check the Columbia Bulletin for more information on these and additional advanced-level courses.

ENS V 3008y

Climates of the Past

—W. Broecker

Major credit is not granted for both this course and ENS BC 3031y Climate: Present, Past, and Future.

3 points. *Alternate years.*

ENS W 3327y

Principles of Geomorphology

—M. Anders

3 points.

Earth Semester/Summer Field Course at Biosphere 2

Columbia University has assumed responsibility for managing the Biosphere 2 Center in Oracle, Arizona. Biosphere 2 is a large enclosed research facility for studying the future effects of global change on living systems. Students may study at Columbia's Biosphere 2 campus for one term (x or y), and/or for the summer term.

Students will typically take 16 points of course work representing 4 courses toward the major or minor with full Barnard College credit resulting from the successful completion of course requirements, and with full Barnard financial aid awarded on the same basis as for work completed on the Morningside Heights campus.

Biosphere 2 is located about 40 minutes from Tucson, Arizona. Ample opportunities exist for exploring the desert southwest, both during course related field work and in students' free time. Students will reside in apartments with kitchens located on the Biosphere 2 campus. Cafeteria and restaurant facilities are also available on campus. Applications and admissions inquiries should be directed to *dcolodney@bio2.edu* (phone 520/896-5075) or the Barnard Environmental Science Department.

FIRST-YEAR SEMINAR

401B Barnard Hall

854-2101

This program is supervised by the First-Year Seminar Committee:

Professor of Classics: Helene Foley

Professor of Political Science: Dennis Dalton

Professor of History: Rosalind N. Rosenberg

Professor of English: James Basker (Director)

Senior Lecturer in English: Margaret Ellsberg

Instruction in the First-Year Seminar Program is provided by the following regular members of the Barnard College faculty:

Professors: James Basker (English), Mark Carnes (History), Natalie B. Kampen (Women's Studies), Joseph Malone (Linguistics), Robert McCaughey (History), Keith Moxey (Art History), Rosalind Rosenberg (History), Mirella Servodidio (Spanish)

Associate Professors: Michael Delli Carpini (Political Science), Heather Henderson (English, Visiting), Michael Levine (German), Catherine Nepomnyashchy (Slavic), Carolyn Ristau (Psychology, Visiting), Herbert Sloan (History)

Assistant Professors: Linda Beck (Political Science), Neil Buchanan (Economics), Taylor Carman (Philosophy), Ennis Edmonds (Sociology), Ellen Graff (Dance), Jennie Kassanoff (English), Joel Kaye (History), Rachel McDermott (Asian and Middle Eastern Cultures), Claudia Orenstein (Theatre), Jeanne Poindexter (Biology), Rajiv Sethi (Economics), J. Phillip Thompson (Political Science), Barbara Woike (Psychology), Nancy Worman (Classics)

Lecturers and Other Faculty: Mary Cregan (English), Celia Deutsch (Religion), Margaret Ellsberg (English), Vandana Gupta (French), Anna Lehmann (French), John Pagano (English), Quandra Prettyman (English), Maura Spiegel (English), Elizabeth Stewart (English), Timea Szell (English), Christine Valenza (Education), Margaret Vandenburg (English)

Purpose and Structure

Every Barnard first-year student is required to take a First-Year Seminar during her first or second semester at Barnard. The purposes of the First-Year Seminars are threefold:

1. To develop further the essential and prerequisite skills a student brings to Barnard in the critical reading and analysis of important texts, in effective speaking, and in writing well—this last especially.
2. To develop these skills within an intellectually challenging context where students and teacher alike, through a close examination of important and relevant texts, engage in an extended consideration of a theme central to human concerns and which goes beyond departmental boundaries.
3. To develop these skills and encounter this intellectual challenge in a small-class setting with instruction by a regular member of the Barnard faculty who has chosen to participate in the program. As such, First-Year Seminars should provide entering Barnard students with an early sense of community.

Accordingly, all First-Year Seminars share a common structure:

- Each will meet twice a week in regularly scheduled class periods and earn 3 points.
- Each will have its enrollment limited to 20 or fewer students.
- Reading assignments will consist of a maximum of six book-length assignments or their equivalent (about 2,000 pages).
- Writing assignments will consist of a minimum of an assignment every other week. These assignments will vary in character (e.g., an assigned topic; a selected topic; reworking a previous assignment; editing the work of others) and length.

- The regular grading practices of the College will be followed. Upon completion of the course, students will have an opportunity to evaluate their First-Year Seminar and to offer suggestions as to how it might be improved in subsequent offerings.

COURSES OF INSTRUCTION

The First-Year Seminar Program consists of approximately thirty seminars, organized into five clusters:

- I. Literary Reflections on the Human Condition
- II. The Individual and the Social Order
- III. Women in Literature and Culture
- IV. Aspects of the Modern Condition
- V. Cross-Cultural Encounters

These clusters identify thematic concerns or textual emphases common to more than one seminar, while reflecting varying levels of faculty collaboration that went into the development of the individual seminars. They are also intended to facilitate the process by which a student selects the seminar of her first or second choice. (Procedures for selecting First-Year Seminars are described in the First-Year Registration materials.)

This is a representative sample of seminars typically offered in one academic year.

I. LITERARY REFLECTIONS ON THE HUMAN CONDITION

Each of these seminars focuses on an enduring theme or genre through a close reading of texts drawn from the sweep of ancient and modern literature.

FSM BC 1131

Autobiography and American Women

The ways that American women have presented their own experience of childhood and adolescence. How do autobiographers shape the stories of their lives? Is autobiography fact or fiction? How do writers use literary devices to explore and represent the self? Topics will include the immigrant experience, the clash of different cultures, and the quest to forge a coherent self, both in life and on the page. Readings include:

F. Linderman, *Pretty Shield*, *Medicine Woman of the Crows*; Elinore Pruitt Stewart, *Letters of a Woman Homesteader*; Maya Angelou, *I Know Why the Caged Bird Sings*; Maxine Hong Kingston, *Woman Warrior*; Annie Dillard, *An American Childhood*; Mary McCarthy, *Memories of a Catholic Girlhood*.

—H. Henderson, English

FSM BC 1132

Visions, Revisions, and Transformations

How different writers revise their own works, revisit familiar texts, and transform the materials of their culture. Among the writers studied are Alexander Pope, Charlotte Brontë, Frederick Douglass, and Leslie Marmon Silko. Genres include essays and diaries as well as poetry and short stories. Two of the tales are Cinderella and Icarus. —Q. Prettyman, English

FSM BC 1134

A Brief History of Evil

Why do people perpetually suffer and cause suffering? What changes, if any, has moral consciousness undergone in the past 3,000 years? Has humankind advanced in understanding evil, alleviating suffering, promoting virtue? Examines literary and philosophical texts from antiquity to the present, focusing especially on the idea—or possibly the illusion—of moral progress. Readings include: *Genesis*; Sophocles, *Antigone*; Plato, *The Trial and Death of Socrates*; Dante, *Inferno*; Voltaire, *Candide*; Dostoevsky, *Notes From Underground*; Levi, *The Drowned and the Saved*; Foucault, *Discipline and Punish*.

—T. Carman, Philosophy

FSM BC 1135

Suffering and Liberation in the Black Experience

An exploration of the twin themes of suffering and liberation as they are manifest in the works of selected writers who portray the black experience. These themes will be considered in relation to slavery, segregation, racism, classism, colonialism, and other situations of suffering from which black people have sought liberation. Readings include: Frederick Douglass, *Narrative of the Life of Frederick Douglass*; Alice Walker, *The Color Purple*; Franz Fanon, *Wretched of the Earth*; Toni Morrison, *The Bluest Eye*; Chinua Achebe, *Things Fall Apart*; Aimé Césaire, *Discourse on Colonialism*; Claude McKay, *Banjo*; and James Baldwin, *The Fire Next Time*.

—E. Edmonds, Sociology

FSM BC 1136

History and Human Nature

How are perceptions of Nature and the natural world connected to conceptions of human nature and human potentiality? How have these linked perceptions changed over time? We will draw from Classical, Christian, Enlightenment, and Modern writings to answer these questions. Readings include selections from the Bible, Marcus Aurelius, St. Augustine, Catherine of Siena, Rousseau, Mary Shelley, Thoreau, and contemporary ecological thought.

—J. Kaye, History

FSM BC 1137x

The Summons to Adventure

Encounter with the marvelous and otherworldly as a call to adventure. The individual's quest for spiritual fulfillment, for recognition of and relationship to the agencies that shape human destiny. Transformations of romance and its reemergence in modern fantasy. Readings include: *The Bacchae*; *Sir Gawain & the Green Knight*; *Hamlet*; romantic poetry; *Frankenstein*; *Alice in Wonderland*; *Their Eyes Were Watching God*; *The Woman Warrior*; Tolkien; Le Guin; Márquez. —J. Pagano, English

FSM BC 1144y

Race in the Early Modern Imagination

Focusing on representative English texts, this seminar examines how literature began to reflect ideas about "other" races, particularly Africans, and to develop moral and imaginative responses to historic issues such as slavery, imperialism, abolition, and repatriation, from the time of Shakespeare to the first British abolition bills of 1792 and 1807. Texts include Shakespeare, *The Tempest*; Aphra Behn, *Oroonoko*; Defoe, *Robinson Crusoe*; Johnson, *Life of Drake* and other writings; the poetry of Phillis Wheatley, William Blake, Hannah Moore, and William Cowper; and the *Life of Olaudah Equiano*, among others. —J. Basker, English

FSM BC1149x

Children of Medusa: Defining Monstrosity

An exploration of how notions of monstrosity have evolved, from antiquity to the present. The monster as other to the heroic self. The relationship between physical "abnormals" and character "deformities" that result in social exclusion, such as gender transgression, homosexuality, low social status, and psychosis. Selections will range from Greek and Latin literature to 20th-century film, including Hesiod, *Theogony*; Euripides, *Medea*; Virgil, *Aeneid*; *Beowulf*; Shakespeare, *The Tempest*; Shelley, *Frankenstein*; Freud, "Medusa's Hand"; Conrad, *Heart of Darkness*; O'Connor,

Wise Blood; Fiedler, *Freaks*; Lynch, "The Elephant Man"; Livingston, "Paris Is Burning."

—N. Worman, Classics

FSM BC1150y

Humanity as a Natural Phenomenon

Views of the origin of humankind as a consequence of natural processes that are not unique to humanity. Reading and discussion will examine the view of our species that has arisen from scientific observation, interpretation, and inspiration since 1859. Implications of this view for our place among all forms of life on earth will be considered. Readings will include selections from C. Darwin, E.O. Wilson, L. Thomas, and F. Jacob, among others.

—J. S. Poindexter, Biology

II. THE INDIVIDUAL AND THE SOCIAL ORDER

These seminars focus on the tensions between the claims of the individual to autonomy and the demands placed upon the individual by society.

FSM BC 1228x

Ethnicity and Social Transformation

An examination of how Americans have imagined social hierarchies and ethnic identities, from the WASP-dominated society of the 1890s to the strong emergence of other ethnic groups in the 20th century. Authors include: F. Scott Fitzgerald, E. L. Doctorow, Bernard Malamud, Langston Hughes, Alice Walker, Faye Ng.

—M. Ellsberg, English

FSM BC 1230

The Art of the Museum

An analysis of the social, political, and aesthetic role of the museum in contemporary culture. The unique resources of New York City will be used to familiarize us with the organization and operation of a variety of different museums. What social needs does the museum espouse and promote? What is the educational significance of the museum as preserver of the past? According to what principles are works of art acquired? How are exhibitions conceived? What objects are chosen and how are they displayed to the public?

—K. Moxey, Art History

FSM BC 1232

Morality in Political Thought

An examination of classical and recent theories on the role of morality as applied to contemporary politics. Readings will be drawn from Plato, Aristotle, Epicurus, Epictetus, Augustine, Aquinas, Machiavelli, Hobbes, Locke, Hume, Rousseau, Kant, Mill, Marx, and Nietzsche, as well as con-

temporary theorists such as Philip Selznick and James Scott. —P. Thompson, Political Science

FSM BC 1233x **Gender and Justice**

An examination of theories of moral rightness and their relationship to ideas about masculinity and femininity from ancient to modern times. Readings include: Plato, *The Republic*; Engels, *The Origin of Family*; Rousseau, *The Social Contract*; Mill, *Essays on Sex Equality*; Freud, *Civilization and Its Discontent*; MacKinnon, *Toward a Feminist Theory of State*. —R. Rosenberg, History

FSM BC 1234 **Justice and the Environment**

Modern society is characterized by both material abundance and potentially hazardous industrial pollution. Is the distribution of exposure to pollution equitable? How does the law deal with situations in which one party exposes another to an environment hazard? What is a just way of dealing with such exposure? Readings include *A Civil Action* by Harr, *A Theory of Justice* by Rawls, and articles by contemporary legal scholars such as Vicki Been. —R. Sethi, Economics

FSM BC 1235 **Detective Fiction**

Exploration of the evolution of detective fiction from Sophocles' *Oedipus Rex* to the present. Special attention to issues of gender, identity, and cultural difference. Readings include works by Dickens, Poe, Dostoevsky, Doyle, Christie, Sayers, and Tey. —C. Nepomnyashchy, Slavic

FSM BC 1241y **Equality**

What do we mean when we speak of equality? How committed are we, as individuals, as a society, to achieving it? These and other relevant questions will be examined through a close reading of classic and modern texts. Readings include: Aristotle, *The Politics*; R. H. Tawney, *Equality*; Rousseau, *Discourse on the Origins of Inequality*; Burke, *Reflections on the Revolution in France*; Wollstonecraft, *Vindication of the Rights of Woman*; Franz Fanon, *The Wretched of the Earth*; Stephen Jay Gould, *The Mismeasure of Man*; and selected Supreme Court cases. —H. Sloan, History

FSM BC 1243x
Slavery to Wages: Labor, Coercion, and Freedom
Throughout history, societies have been innovative in how they have induced people to work, ranging from highly coercive systems—slavery and serfdom—to those based on individual liberties and

free labor. Focusing on important texts of philosophy and social history, as well as contemporary writings in economics and literature, we will explore how the issue of free vs. coerced labor has descended to us in modern society. Readings from John Locke, Adam Smith, E. P. Thompson, Maurice Lemoine, and Thomas Holt, among others. —A. Dye, Economics

FSM BC 1244x **Interpretations of Childhood and Adolescence**

An examination of the lives of children and adolescents, and the ways in which their experiences have been defined and interpreted during different eras and within various cultures. Works will be drawn from a variety of disciplines that study childhood, and from portrayals of children and adolescents in literature and memoirs. A particular focus will be the socialization of girls and young women. Works will be selected from: Calvert, *Children in the House*; Erikson, *Childhood and Society*; Gilligan, *Making Connections*; Kohl, *36 Children*; Kozol, *Amazing Grace*; Alcott, *Little Women*; Alvarez, *How the Garcia Girls Lost Their Accents*; Kincaid, *Annie John*; Moody, *Coming of Age in Mississippi*; Kingston, *The Woman Warrior*; Watterson, *Calvin and Hobbes*. —C. Valenza, Education

FSM BC 1245x **The Psychology of Communication**

Explores some of the varieties of human communication and our contemporary psychological understanding of them. Examines our writing, our talking, our expressions and postures, our everyday rituals. To more fully appreciate the communicative possibilities of literature, selected poetry and excerpts from plays will be memorized and presented. Readings include: Charles Darwin, *The Expression of the Emotions in Animals and Man*; Temple Grandin, *Thinking in Pictures*; selected poetry of e.e. cummings and Gerard Manley Hopkins; excerpts from plays of Samuel Beckett; Irving Goffman, *Behavior in Public Places*; *African Literature*. —C. Ristau, Psychology

FSM BC 1246x **The Gender of Modernism**

When Europe exploded into World War and Modernism, the embattled genders engaged in literary trench warfare. Through the lens of gender, we will explore the cultural and psychological fragmentation and innovation of Modernism. Readings include: Djuna Barnes, *Nightwood*; T.S. Eliot, *The Waste Land*; Zelda Fitzgerald, *Save Me the Waltz*; F. Scott Fitzgerald, *Tender Is the Night*; Ernest Hemingway, *In Our Time*; James Joyce,

Dubliners; D.H. Lawrence, *Women in Love*; Gertrude Stein, *Ida*; Virginia Woolf, *To the Lighthouse*; selected essays by Sigmund Freud and C.G. Jung. —M. Vandenburg, English

FSM BC 1247x

Race, Nation, and the Post-colonial Novel

A study of recent novels that self-consciously explores the idea of nationhood and the boundaries and extensions of national, racial, religious, and literary identification. Readings include: Philip Roth, *Operation Shylock*; V.S. Naipul, *A Bend in the River*; Anita Desai, *Baumgartner's Bombay*; Joyce Carey, *Mr. Johnson*; Chinua Achebe, *Things Fall Apart*; Rudyard Kipling, *Kim*; and essays by Fanon, Bhabha, Said, Anderson. —M. Spiegel, English

FSM BC 1248y

Working and Not Working

While working is typically considered to be a necessary evil, not being able to find work is often a personal tragedy, undermining one's social status and self-worth. Examines the social dimensions of employment and unemployment, through readings (Steinbeck, Turkel, Marglin, etc.) and films (*Roger and Me*, *Matewan*, etc.). —N. Buchanan, Economics

III. WOMEN IN LITERATURE AND CULTURE

Investigations into the ways in which women and women's experience have been constructed and imagined in literature and culture. An exploration of destiny and desire; sexuality and the body; rites of passage; myth; modes of rebellion; possibilities of and limits on women's lives; knowledge, freedom, and duty; work; alternative visions and strategies. Consideration of sacrifice, courtship, marriage, motherhood, relationships, "adultery," and work. Readings will include major works of Western and non-Western literature in the critical context of contemporary scholarship; attention to historical context wherever possible. Each seminar will draw some of its readings from the following core list of writings: Homer, *The Odyssey*; Sophocles, *Antigone*; Homeric Hymn to Demeter; Christine de Pizan, *The City of Ladies*; William Shakespeare, *As You Like It*; Virginia Woolf, *A Room of One's Own*; Maxine Hong Kingston, *The Woman Warrior*; novels by Jane Austen, Charlotte Brontë, Emily Brontë, Bessie Head, Toni Morrison, and Zora Neale Hurston; lyric poetry by women; literature by female mystics; selected critical essays. Each semester the seminars in this cluster will share

some texts and events (e.g., viewing of a film, discussion, guest speaker).

FSM BC 1309x

Women in Literature and Culture

Special texts: Jeanette Winterson, *The Passion*; Zora Neale Hurston, *Their Eyes Were Watching God*; Chaucer, "Wife of Bath's Tale"; Toni Morrison, *Beloved*; selections from Marie de France; Anna Deavere Smith, *Fires in the Mirror*. —T. Szell, English

FSM BC 1310x

Women in Literature and Culture

Special texts: Rosaldo and Lamphere, eds., *Women, Culture, and Society*; Sophocles I (trans. Wyckoff), *Antigone*; C. Garcia, *Dreaming in Cuban*; Gilligan, *In a Different Voice*; Gárcia Lorca, *Blood Wedding*, *Yerma*, *The House of Bernarda Alba*; de Vega, *Fuente Ovejuna*; Tolstoy, *Anna Karenina*; Walker, *The Color Purple*. —Mirella Servodidio, Spanish and Latin American Cultures

FSM BC 1313x

Women in Literature and Culture

Special texts: Toni Morrison, *Beloved*; Leslie Silko, *Ceremony*; Anzia Yezierska, *Bread Givers*; Anaya, *Bless Me, Ultima*; Alvarez, *How the Garcia Girls Lost Their Accents*. —C. Deutsch, Religion

FSM BC 1321y

Women in Literature and Culture

Special texts: Brontë, *Wuthering Heights*; Hurston, *Their Eyes Were Watching God*; Olsen, *Tell Me A Riddle*; Stein, *Three Lives*; Woolf, *To the Lighthouse*. —M. Vandenburg, English

FSM BC 1323y

Women in Literature and Culture

Special texts: Genesis; Milton, *Paradise Lost*; Austen, *Emma*; Eliot, *The Mill on the Floss*; Woolf, *The Voyage Out*. —M. Cregan, English

FSM BC 1324

Women in Literature and Culture

Special readings from Sappho, Euripides, Nietzsche, Artaud, Freud, Morrison, Mukherjee, Kingston, and Judith Butler. —E. Stewart, English

IV. ASPECTS OF THE MODERN CONDITION

These seminars are concerned with the different ways literary artists portray and social critics analyze the contemporary Western world. Readings include works of fiction, biography, and social theory.

FSM BC 1429x

Body Politics: Race, Class, and Gender in Western Performance

An examination of the ways in which race, class, and gender have been represented in Western performance. Drawing critical methodologies from art history as well as literary and feminist criticism, the seminar seeks to understand how cultural constructions of sexuality and ethnicity are inscribed on the body in literature, theatre, dance, and everyday life. How does the presence of the live(d) body construct (and deconstruct) these images in performance? Readings and viewings include: Sophocles, *Oedipus Rex*; Martha Graham, *Night Journey*; Shakespeare, *Othello*; José Limón, *The Moor's Pavane*; Kate Chopin, *The Awakening*; Clifford Odets, *Waiting for Lefty*; Ntozake Shange, *For Colored Girls Who Have Considered Suicide When the Rainbow is Enuf*; Walt Whitman, *Leaves of Grass*; Virginia Woolf, *A Room of One's Own*. —E. Graff, Dance

FSM BC 1434x

The Person in Literature and Life

Examines different authors' conceptions of the internal and social forces that shape an individual's unique personality. Discussions focus on the adaptiveness of particular personalities within the context of their social environments. Readings include: Alice Walker, *The Color Purple*; Amy Tan, *The Joy Luck Club*; Barbara Kingsolver, *The Bean Trees*; Sigmund Freud, *Dora*; Gustave Flaubert, *Madame Bovary*; Tennessee Williams, *A Streetcar Named Desire*. —B. Woike, Psychology

FSM BC 1437x

The Art of Seduction: Don Juan and the Femme Fatale

Examination of two figures traditionally represented as the antithesis of the paternal and maternal, sterile or barren figures who raise questions rather than children—questions about the relationship between seduction and reproduction, about the production of knowledge, about mastery, performance, transgression, and desire. Texts and films to be drawn from Molière, G.B. Shaw, Mozart, Bizet's *Carmen*, *The Last Seduction*, and *M. Butterfly*, among others. —M. Levine, German

FSM BC 1438

Poets and Painters

An exploration of the relationship between literature and the visual arts, from antiquity to the present. The encounter of words and images evokes responses in poets, painters, and their critics. From the Horatian simile *ut pictura poesis*, and Aristotle's reflection on the kinship of poetry and

painting as arts of imitation, to recent developments in computer poetry. Topics include William Blake and the poet-painter; Ekphrasis and Keats' romantic "Ode on a Grecian Urn"; H.D.'s Imagist, "Storm"; Baudelaire and Modernity; Apollinaire's *Calligrammes*; Gertrude Stein and Cubism; Breton and the Figurative against Duchamp; Eluard and Surrealism; Kerouac and Harold Rosenberg on the Action Painters; Pasolini and *Arte Povera*; Andy Warhol and the Machine Esthetic. —A. Lehmann, French

FSM BC 1439

Wicked Acts

An examination of the representation of evil in theatrical traditions from the West and Asia. The class will include plays by Euripides, Shakespeare, Jonson, and Brecht as well as plays from the performance traditions of Noh, Kabuki, Sanskrit drama, and Indonesian dance and puppetry. —C. Orenstein, Theatre

FSM BC 1440

Public Disclosure in the Mass Media Age

An exploration of how social and political ideas are fundamentally affected by the way in which they are communicated. Topics include a comparison of oral, written, and electronic communication; communicating through images versus words; the differences between interpersonal and mass communication; and the use of fiction to communicate about social and political reality. Specific forms of communication are conversation, public addresses, pamphlets, newspapers, novels, poems, plays, magazines, television, radio, film, and the Internet. Authors include: John Stuart Mill, Alexis de Tocqueville, John Dewey, Walter Lippman, Marshall McLuhan, Jurgen Habermas, Raymond Williams, Walter Benjamin, Neil Postman, Noam Chomsky, and Susan Faludi. Examples of political communication are Thomas Paine's *Common Sense*, Abraham Lincoln's "Gettysburg Address," Public Enemy's "Fear of a Black Planet," and Oliver Stone's *Nixon*. —M. Delli Carpini, Political Science

V. CROSS-CULTURAL ENCOUNTERS

These seminars consider imaginative and analytic efforts by one culture to comprehend aspects of another culture, thereby making them conscious instances of such efforts.

FSM BC 1518y

Communication and Pseudo-communication through Language

Communicational successes and failures across groups of humans. Literature by and about the

oppressed, the disinherited, the marginalized. Critical analysis of language abuses innocently or maliciously apt to foment prejudice, paranoia, or at the very least misunderstanding. Readings include portions of:

Louise Erdrich, *Love Medicine*

S.I. & A. R. Hayakawa, *Language in Thought and Action*

Oscar Hijuelos, *The Fourteen Sisters of Emilio Montez O'Brien*

Joseph Malone, *The Science of Linguistics in the Art of Translation*

Kate Millet, *The Loony-Bin Trip*

Toni Morrison, *The Bluest Eye*

Bharati Mukherjee, *The Tiger's Daughter*

George Bernard Shaw, *Saint Joan*

R.A. Sasaki, *The Loom and Other Stories*

Deborah Tanner, *You Just Don't Understand*

—J. Malone, Linguistics

FSM BC 1530y

Women and Religion

An examination of several religious traditions with attention to the various historical, theological, and ideological roles women have played. The course seeks to provide information about a number of major religious traditions from the perspective of women, and an enhanced understanding of the relationship between religion, culture, and gender issues. Readings include: Sharma, *Women and World Religions*; *Womanspirit Rising: A Feminist Reader in Religion*; Jacobson and Wadley, *Women in India: Two Perspectives*; Kingston, *The Woman Warrior*; Mernissi, *Beyond the Vale*; *Translations and Commentary on the Therigatha*; Plaskow and Christ, *Weaving the Visions: New Patterns in Feminist Spirituality*. —R. McDermott, Asian & Middle Eastern Cultures

FSM BC 1535y

Literature and the Condition of Exile

Perceptions and representations of the other. An exploration of the condition of exile and its treatment in various literatures. Readings include: Conrad, *Heart of Darkness*; Forster, *A Passage to India*; Gide, *The Immoralist*; Ba, *So Long a Letter*. —V. Gupta, French

FSM BC 1536y

Shakespeare and the American Imagination

An examination of how and why American writers and filmmakers have understood, rethought, and reinvented Shakespeare's plays. From the streets of urban Seattle to the farmland of Iowa, these novels, poems, stories, and films recontextualize the plays in suggestive and innovative ways, throwing into relief the gender, racial, class, and literary concerns of the United States. Readings will focus on five plays in particular:

Hamlet (Willa Cather, *A Lost Lady*, and Henry James, "Master Eustace"); *King Lear* (Jane Smiley, *A Thousand Acres*); *Henry IV, Part I* (film: "My Own Private Idaho"); *Twelfth Night* (John Hawkes, *The Blood Oranges*); *The Tempest* (Gloria Naylor, *Mama Day*; Melville, *The Encantadas*; and poetry by H.D., Wallace Stevens, Sylvia Plath, Theodore Weiss). —J. Kassanoff, English

FSM BC 1537x

The Politics of Identity

In the United States and most other countries, society contains cultural cleavages rooted in ethnicity, race, religion, and/or caste. The dynamics of multi-culturalism in different countries will be explored. In each case we will discuss the different forms of identity, the historical construction of cultural differences, and alternative strategies available to states and their societies to address issues of cultural diversity such as ethnic conflict and racial discrimination. Readings will include: Ralph Ellison, *The Invisible Man* (U.S.A.); Tsitsi Dangaremba, *Nervous Conditions* (Zimbabwe); Rosa Luxemburg, *The National Question* (Russia); Salman Rushdie, *The Moor's Last Sigh* (India).

—L. Beck, Political Science

FSM BC 1538x

Difference and Representation

Looks at different kinds of difference (e.g., racial, religious, etc.) through various representations from film to science. The goal is to understand how difference is perceived to be natural in cultures as dissimilar as 10th-century Japan, 20th-century America, and 5th-century Egypt. Readings include Shakespeare's *Othello*; *Memoirs of Glückel of Hamel*; Christa Wolf, *A Model Childhood*; and Steven Jay Gould, *The Mismeasure of Man*.

—N. Kampen, Women's Studies

This program is supervised by the Committee on Foreign Area Studies:

Professor of Anthropology: Abraham Rosman

Professor of French: Serge Gavronsky

Associate Professor of History: Deborah Valenze

deBary Associate Professor in Asian & Middle Eastern Cultures: Irene Bloom

Associate Professor of Slavic: Catharine Nepomnyashchy

Assistant Professor of Spanish: Licia Fiol-Matta

Assistant Professor of German: Erk Grimm

The purpose of Foreign Area Studies is to provide an introduction to the study of a foreign region of the world. Foreign Area Studies majors are encouraged to study abroad in the region of interest. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses may be chosen upon approval of the project by an adviser.

REQUIREMENTS FOR THE MAJOR

A major in Foreign Area studies is open to qualified students whose applications are approved by the committee in charge. First-year students and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

The senior requirements vary according to the region studied. Majors should consult their advisers for details.

There is no minor in Foreign Area Studies.

Asian and Middle Eastern Cultures (*Adviser:* Irene Bloom) See page 83.

European Studies (*Adviser:* Deborah Valenze)

Students may focus on one country or one region of Western Europe. Competence in the language of the region is expected. The major includes:

- A. A concentration consisting of five courses in an academic discipline in the Social Sciences chosen in consultation with the major adviser. A maximum of two of these courses that deal with European topics may be counted among the ten courses in the regional concentration (Part B).
- B. Ten courses focusing on a country or region to include:
 - Two courses in European History;
 - Two courses in the literature or cultural studies of one country in the original language;
 - Two semester senior projects under the direction of the program adviser or an adviser in the minor field;
 - Four courses outside the field of concentration dealing with the selected country or region.

The following list is only a sample selection of courses that may be applied to the major.

Anthropology V 10105y	Multiculturalism: Ways of Looking at Other Cultures
Anthropology V 3028	Cultural Contact: Archeological Ethnohistorical Approaches
Anthropology V 3100	Anthropology of Urban Life
Anthropology V 3038	Ethnicity and Race
Art History V 3475	Art and Culture of the Northern Renaissance
Art History BC 3521	Seventeenth-Century Painting and Public Life in the Lowlands, 1580-1700
Economics BC 3030	Comparative Economic Systems
Economics BC 3041	Theoretical Foundation of Political Economy
History BC 1011, 1012	Introduction to European History (recommended as prerequisites for other history courses)
History BC 3005	Nationalism in 20th-Century Europe
History BC 3039	The Civilizing Process
History BC 3410	The City in Europe
History BC 3433	European Welfare State and the Family, 1919-1980
Political Science BC 3007	Modern Political Movements
Political Science BC 3013, 3014	Political Theory
Political Science V 3505	Introduction to Comparative Politics
Religion V 1101	Introduction to the Study of Western Religion
Religion V 3501	18th- and 19th-Century Religious Thought
Sociology V 3100	Introduction to Social Theory
French courses in Culture and Literature	See French, page 168.
German courses in Culture and Literature	See German, page 177.
Italian courses in Culture and Literature	See Italian, page 191.
Spanish courses in Culture and Literature	See Spanish, page 269.

French Studies (Adviser: Serge Gavronsky)

German Studies (Advisers: Erk Grimm, Michael Levine)

Latin American Studies (Adviser: Licia Fiol-Matta)

See Department of Spanish and Latin American Cultures, page 269.

Russian Regional Studies (Advisers: Catharine Nepomnyashchy, Peter Juviler)

The major consists of four years of Russian language and a reading knowledge of Russian adequate for research in the Senior Seminar and eight courses distributed in the following subjects:

- Two courses in Russian or Soviet literature (in translation or in Russian);
- Two courses in Russian history;
- One course on Russia or the Soviet Union (history, geography, sociology, economics, literature in translation or in Russian, etc.);
- One course in Soviet/post-Soviet politics; and
- Two semesters of a senior research seminar with research to be conducted predominantly in Russian language sources.

Spanish Studies (Adviser: Isolina Ballesteros)

Professors: Serge Gavronsky (Chair), Renée Geen

Assistant Professor: Peter T. Connor

Senior Lecturer: Anne Boyman

Lecturers: Aïssata Sidikou, Laurie Postlewaite

Associates: Vandana Gupta, Isabelle Jouanneau-Fertig, Anna Lehmann, Sarah Juliette Sasson

Courses in the French Department have a twofold objective: to perfect fluency in the written and spoken language, and to develop an understanding and appreciation of the literature and culture of France and French-speaking countries.

New students who have already given evidence of advanced training in French (Advanced Placement Examination with a score of 4 or 5; CEEB examinations with a score of 750) may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test offered at the start of each semester (see College Calendar for exact dates). Those receiving a sufficiently high grade fulfill the requirement. The others may do so by completing French BC 1204. For additional information about language courses, students should consult the department chair.

Students who have satisfied the language requirement may immediately enroll in literature and culture courses conducted entirely in French (BC 3020, BC 3021, BC 3022, BC 3023, BC 3024); courses in which the readings are in French and English with lectures, discussions, and papers in English (BC 3046, BC 3047, BC 3048, BC 3049); and advanced language courses (BC 3007-3019).

In cooperation with Columbia College, the department offers a program at Reid Hall in Paris open to majors and non-majors. See Study Abroad, page 42.

The department holds many of its advanced classes in a special seminar-library, the French Room (306 Milbank).

REQUIREMENTS FOR THE MAJOR

All majors are required to take the Junior French Test, a short-answer examination on literary history, literary terminology, and translation. Majors will take the Major Examination, a written critical essay on a prepared question, and an individual oral *explication de texte*.

Students enrolled in the Senior Essay will take the written part of the Major Examination. The defense of the essay constitutes the oral section of the Major Examination.

Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin and German.

There are three majors available to prospective students in the department:

Language and Literature: This program emphasizes the language, culture, and literature of the country.

Translation and Literature: This program perfects students' abilities to translate from French into English and English into French, together with a knowledge of French culture and literature.

French Studies: This program emphasizes the socioeconomic, political, and historical aspects of language studies as well as the cultural and literary aspects of France and Francophone countries.

In consultation with the adviser of her choice, the student majoring in French may select one of the following options:

Language and Literature

10 courses are required for the major:

FRE BC 3021, BC 3022 or BC 3023, BC 3024

Two language courses chosen from FRE BC 3013-3019

Two literature courses chosen from BC 3031-3036 and three courses chosen from 3037-3043

One-term seminar numbered BC 3052, a Senior Essay, or a sixth literature course.

Translation and Literature

10 courses are required for the major:

FRE BC 3021, BC 3022 or BC 3023, BC 3024

Three language courses chosen from FRE BC 3014-3017

Four one-term literature courses chosen from the following: BC 3031-BC 3043

One-term seminar numbered BC 3053 or a Senior Essay in Translation.

French Studies

11 courses are required for the major:

FRE BC 3021, BC 3022 or BC 3023, BC 3024

Two language courses chosen from FRE BC 3007-BC 3017

Five one-term advanced literature and culture courses numbered
FRE BC 3031-3049

Two one-term courses related to aspects of French Studies in humanities or social sciences selected in consultation with the major adviser.

The student is expected to declare her option by the end of the junior year. Programs may include additional courses in French literature, culture, and language, or in other subjects which vary with the interest of the student. Certain courses in the French and Romance Philology Department at Columbia University may be substituted with the approval of the chair.

A student who elects French as part of a combined double or interdisciplinary major will establish her individualized program with the departments concerned.

REQUIREMENTS FOR THE MINOR

Seven courses are required for a minor:

FRE BC 3021, BC 3022, or BC 3023, and BC 3024

Two language courses chosen from: FRE BC 3007-BC 3017

Three literature and culture courses chosen from: FRE BC 3031-BC 3049

COURSES OF INSTRUCTION

LANGUAGE COURSES

For satisfactory completion of the language requirement, students with a C- or below average will have to repeat the course.

FRE BC 1001x, 1002y **Elementary Full-Year Course**

Basic elements of French grammar. Oral, writing, and reading skills. —Staff
4 points. *Students may take either or both of these courses at Columbia.*

FRE BC 1002x

Elementary French

Second semester of full-year course. —J. Sasson
4 points.

FRE BC 1102x

Review of Elementary French

Oral and written review of basic grammar and syntax. Reading in modern literature and Francophone literature, free composition, translation. One hour of oral drill is required. —Staff
Course chair: I. Jouanneau-Fertig
Primarily for students who need further instruction to

qualify for the intermediate course. Credit cannot be granted for both BC 1102 and BC 1002 (or its equivalent). Enrollment limited to 20 students per section. 3 points.

FRE BC 1201x **Intermediate Conversation**

A one-point course intended to improve students' oral proficiency through individual presentations, group projects, and exercises in vocabulary building. *Prerequisite: Satisfaction of Elementary French. This course does not satisfy the language requirement.* 1 point.

FRE BC 1203x, y **Intermediate Course I**

Further development of oral and written communication skills. Literary analysis, expository compositions, and *explication de texte*. Readings from modern French and Francophone literatures.

—Staff

Course chair: V. Gupta

Prerequisites: BC 1001x, BC 1002y, BC 1102x, C 1101-C1102, or an appropriate score on the placement test. 3 points.

FRE BC 1204x,y **Intermediate Course II:** **French through Literary Analysis**

More advanced work in language skills. Emphasis on literary analysis and *explication de texte*. Readings taken from literature of the Renaissance to the modern period.

—Staff

Course chair: A. Boyman

Prerequisite: BC 1203 or an appropriate score on the placement test. 3 points.

FRE BC 1205y **Intermediate Oral French**

Intensive oral work, vocabulary enrichment, discussions on prepared topics relating to contemporary France and the French-speaking world, oral presentations. (This course does not satisfy the language requirement.)

—I. Jouanneau-Fertig

Limited to 16 students.

3 points.

FRE BC 1306y **Composition and Conversation**

Weekly compositions designed to improve writing skills and to correct grammar and syntax. Pronunciation, vocabulary development.

—I. Jouanneau-Fertig

3 points.

FRE BC 3007x **Commercial-Economic French**

The socioeconomic language of contemporary French society. Practice of oral and written communications based on documents from the French press. Students who have completed the course may wish to take the Certificate exam given by the Chambre de Commerce et d'Industrie de Paris.

—I. Jouanneau-Fertig

3 points.

II H

FRE BC 3012x **Advanced Composition and Grammar** **Review, Part I**

Systematic study of morphology, syntax, and idiomatic expressions. Weekly writing assignments.

—R. Geen

3 points.

FRE BC 3013y **Advanced Composition and Grammar** **Review, Part II**

Systematic study of morphology, syntax, and idiomatic expressions. Weekly writing assignments.

—R. Geen

3 points.

FRE BC 3014y **Advanced Translation: Literary Texts**

Translation of various styles of prose and poetry from French to English.

—'98: A. Boyman

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points.

FRE BC 3015x **Advanced Translation into French**

Specific techniques of translation will be studied and applied to various texts (prose, poetry, theatre) and contexts (advertisements, cartoons, song lyrics, subtitles) in order to increase awareness of linguistic resources and expressive possibilities. —'97: R. Geen

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points.

FRE BC 3016x **Advanced Conversation**

Spoken French stressing fluency and acquisition of new vocabulary. Practice in phonetics. Conversations, debates based on newspaper articles, and dramatic readings. —A. Boyman

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points.

FRE BC 3017y**Advanced Translation: Non-literary Texts**

Translation of various non-literary styles of prose taken from historical, critical, philosophical, and other sources. —A. Boyman

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points.

II H

FRE BC 3019y**Advanced Phonetics**

A detailed study of the major rules of French pronunciation; theoretical linguistic concepts will be followed up with intensive oral drills.

—A. Boyman

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points.

LITERATURE COURSES

For non-majors the literature courses listed in this section will count toward the general requirement. Courses BC 3047, BC 3048, and BC 3049 are conducted in English.

FRE BC 3020x**Special Themes in Modern French Culture and Literature**

Prerequisite: Satisfaction of the language requirement in French. Enrollment is limited to 30 students.

3 points.

8. Surrealism in Painting and Film

Special attention paid to the influence of de Sade and Freud on major surrealist paintings, films and photographs. Included are works by Breton, Desnos, Bunuel, Clair, Fini, Ernst, Dali, Magritte, Man Ray, Tanning and Artaud. Critical texts by Sade, Freud, Breton, Bataille, Bellmer, Desnos and others. —S. Gavronsky

II H

9. War and Memory: The Impact of World War II in France

An examination of the events of World War II as well as French culture during and after the war as it relates to the political ideologies of the time.

III H

FRE BC 3021x**Major French Texts from the Middle Ages to the 20th Century I**

Medieval, Renaissance, and Classical literature in their cultural context. —R. Geen

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points.

III H

FRE BC 3022y**Major French Texts from the Middle Ages to the 20th Century II**

The Age of Enlightenment, Romanticism, Realism, and Symbolism. French BC 3021 may be taken for credit without completion of French BC 3022. —R. Geen

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points.

III H

FRE BC 3022x**Major French Texts from the Middle Ages to the 20th Century II**

Equivalent of BC 3022y, but given in the Autumn term. —P. Connor

3 points.

III H

FRE BC 3023x**The Culture and Institutions of France**

An historical analysis of *mentalités* from the Middle Ages through the reign of Louis XIV through symbol, structure, and self-presentation. —L. Postlewater

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points.

III H

FRE BC 3024y**The Culture and Institutions of France**

The major cultural and institutional foundations of France from the Age of Enlightenment through the student revolts in 1968. Topics include: the *Encyclopédistes*, the French Revolution, the rise of socialism, *l'Affaire Dreyfus*, decolonization, and May 1968. —P. Connor

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points.

III H

FRE BC 3031x**The Middle Ages**

Development and evolution of literary expression in France from the Crusades through the High Middle Ages. Topic for 1997-98: King Arthur in Medieval French literature. An examination of the many versions and interpretations of the myth of King Arthur, his knights, and his queen, Guinevere. Consideration given to the broader European tradition of Arthurian legend; discussion of courtly love, chivalric codes, and the philosophical and religious context of Arthurian material. —L. Postlewater

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points.

III H

FRE BC 3032y

Women and Writing in Early Modern France

Examination of cultural and literary phenomena in 15th–17th century France, focusing on writings by and about women. Authors include Rabelais, Marguerite de Navarre, Des Périers, Boaistean, La Fontaine, and others.

Prerequisite: FRE 3021, 3022, 3023, 3024, or permission of the instructor.

3 points. Not offered in 1997-99.

III H

FRE BC 3033y

Literature of the French Renaissance and the Baroque

Experimentation and discovery in the arts, in science and technology, and in man's understanding of himself and the world around him. We will explore how the works of French poets, *prosa-teurs*, and playwrights reflect both the vibrancy and splendor of the time, as well as the struggle of an era preoccupied with death and "rebirth."

Authors include Rabelais, Marguerite de Navarre, DuBellay, Ronsard, Louise Labé, Jodelle, Montaigne, and d'Aubigné. —L. Postlewait

Prerequisite: FRE BC 3021, 3022, 3023, 3024, or permission of the instructor.

3 points.

III H

FRE BC 3034x

French Classical Literature and Culture

Focus on the literature and culture of the 17th century. —R. Geen

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points. Not offered in 1997-99.

III H

FRE BC 3035y

Eighteenth-Century French Fiction

Courses and discourses of the heroine in selected 18th-century novels. The rise of the harlot, the tribulations of the orphan, the fall of the noblewoman, and the revenge of the betrayed. Readings include: Prévost, *Manon Lescaut*, Marivaux, *La Vie de Marianne*, Diderot, *La Religieuse*, and Laclos, *Les Liaisons Dangereuses*. Transpositions of the 18th-century heroine in operas and films. —R. Geen

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points.

III H

FRE BC 3036y

The Age of Enlightenment

The challenge of traditional ideas on government, religion, ethics, and aesthetics in 18th-century France. —R. Geen

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points.

III H

FRE BC 3037y

Nineteenth-Century French Poetry

Poems by Lamartine, Hugo, Baudelaire, Rimbaud, and Mallarmé. Readings will focus on the turn from Romanticism to Modernism in the 19th century. —A. Boyman

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points.

III H

FRE BC 3038x

The Nineteenth-Century French Novel

Evolution of the novel, aesthetics of Romanticism, Realism, Naturalism, and Symbolism. Particular attention is paid to the formal problems of narrative, the rhetoric of sentiment, *décadence*, and issues of sexual identity. —P. Connor

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points.

III H

FRE BC 3039y

Twentieth-Century French Theatre

Tradition and innovation in major French dramatists including Giraudoux, Anouilh, Claudel, Ionesco, Genet, and Beckett. —R. Geen

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points.

III H

FRE BC 3040y

Twentieth-Century French Fiction

Topics will include the theory of the gratuitous act, literature and the rise of Fascism, war and the literature of commitment, erotic violence.

—'97: P. Connor

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or permission of the instructor.

3 points.

III H

FRE BC 3041x

Twentieth-Century French Thought

Identity as defined by the "other" and oneself. The first half of the semester focuses on the rise of anti-semitism from the 1880s to Le Pen; the second half focuses on self-identity in the writings of men and women from North Africa (Maghrebins). —S. Gavronsky

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points.

III H

FRE BC 3042x

Twentieth-Century French Poetry

A textual and ideological reading of some of the major Francophone poets, emphasizing surrealism's liberty; Marxism's commitment to socioeco-

conomic changes as well as more recent gender and creolity questions. Poets include Césaire, Senghor, Damas, Depestre, Roumain, Glissant, Tahar Ben Jelloun, Boukhedenna and contemporary Algerian rappers, Idi and Khaled. Critical texts will focus on the writings of the poets themselves.

—S. Gavronsky

Prerequisite: FRE BC 3021, 3022, 3023, 3024, or the equivalent.

3 points.

III H

FRE BC 3043y

Twentieth-Century French Women Writers

Writings by women will be analyzed in the changing philosophical and literary contexts of the 20th century. —'97: A. Boyman

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points.

III H

FRE BC 3045x

The Short Story in France

Short prose fiction (contes, nouvelles, récits, textes) will be read in a literary as well as historical context and studied as ground for experimentation in the meaning of fiction. —R. Geen

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or permission of the instructor.

3 points.

III H

FRE BC 3046y

Political-Economic Aspects of Contemporary France

Major politico-institutional and socioeconomic crises and debates in France from the post-war to the present.

Prerequisite: Satisfaction of language requirement and one advanced French course or the equivalent.

3 points. Not offered in 1997-99.

II S

FRE BC 3047x

Topics in French and Francophone Cultures

Taught in English with readings in English and French; papers in English. Prerequisite: Satisfaction of the language requirement and one advanced French course or permission of the instructor.

3 points.

9. Childhood Remembered

Recollections of childhood as autobiography, self-portrait, or autofiction. The course will focus on the relationship between child and adult in the creation of the social and artistic self. Particular emphasis placed on issues of continuity, responsibility, truth and nostalgia, authenticity and fantasy as well as the potential connections between generic marginality and gender. Authors will include

Vallès, Gide, Sartre, Beauvoir, Simenon, and Sarraute. —R. Geen

III H

11. Major African Texts

Writing from the different parts of the continent. Focus on self-identity and the African experience as conveyed in a variety of genres; poetry, drama, and the novel. —A. Sidikou

II H

FRE BC 3047y

Topics in French and Francophone Cultures

Taught in English with readings in English and French; papers in English. Prerequisite: Satisfaction of French language requirement or permission of the instructor.

3 points.

6. Censorship and Literature in France from the Ancien Régime to World War II

III H

7. Négritude

Analysis of the theoretical and literary precursors of negritude; major figures of the movement; relations with the Harlem Renaissance, and the formulation of creolity by contemporary Caribbean writers and thinkers. Authors will include Gobineau, Maran, Price-Mars, Hughes, McKay, Césaire, Senghor, Damas, Fanon, Sartre, Glissant, and Chamoiseau. —S. Gavronsky

II H

8. Africa in Cinema

Representations of African culture by filmmakers from various cultural backgrounds. Social and ideological positions and the demands of exoticism. The constructions of the African as "other" and the responses they have elicited from Africa's cinéastes.

II H

12. Griots and Griottes of West Africa

An introduction to the keepers of the oral tradition in the Sahel and Savannah regions of West Africa. Texts include songs, poems, praises, and epics. —A. Sidikou

II H

10. Carmen and Her Sisters

Myth of Carmen explored in relation to other literary heroines of the 18th and 19th centuries. Particular focus on the topics of gender; gypsies; exoticism; music and/or performance. —C. Frank

3 points.

II H

FRE 3048x

Topics in Theory and Literary Criticism: Critical Theory

An introduction to the conceptual foundations of structuralism and post-structuralism. —A. Boyman

Course taught in English with readings in English and French; papers in English.

Prerequisite: Satisfaction of the language requirement in French or permission of the instructor.

3 points.

III H

FRE BC 3049x

France on Film

Films on and of the period from the 1930s to the present, focusing on the interplay between history, ideology, and culture. Topics include the syndicalist movement, Resistance and anti-semitism, anti-Americanism, the presence of the foreigner, and the status of the intellectual. Readings include works by contemporary historians, sociologists, and feminist critics, as well as film historians and film theoreticians. —S. Gavronsky

Course taught in English with readings in English and French; papers in English.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points.

II H

SEMINARS

FRE BC 3052y

Seminar in Literature

Georges Bataille and the Literature of Evil. In-depth analysis of Bataille's pornography, ethnography, philosophy, literary and art criticism, and social commentary. His relation to surrealism and existentialism; his influence on structuralist and post-structuralist thought, and his reception in the U.S. Critical essays by Breton, Sartre, Foucault, Derrida, and others. —P. Connor

Written permission of the instructor is required.

4 points.

FRE BC 3053y

Seminar in Translation

Analyses of theories of translations as they apply to a wide variety of approaches from biblical ones (*Genesis*), poetic adaptations (Zukofsky/Mallarmé), radical rewriting (Pound/Roubaud), theatrical transformations (Shakespeare/Césaire), filmic remakes (Renoir/Mazursky), and painterly reinterpretations (Delacroix/Picasso). Work includes individual critiques, collective translations, and a final independent translation project. —S. Gavronsky

Written permission of the instructor is required.

4 points.

SENIOR ESSAY

The Senior Essay may be taken in lieu of the senior seminar only by seniors with an A– average in the department. Written permission of sponsor is required. Normally a one-semester course.

FRE BC 3057x, 3058y

Senior Essay: Literature or French Studies

Research into French or Francophone literatures and cultures. Literature majors will write their essays in French; French Studies majors may write in English.

FRE BC 3059x, 3060y

Senior Essay: Translation

Presentation and translation into English of a French text of significant length and literary or cultural value.

STUDY IN PARIS

Reid Hall Programs

303 Lewisohn Hall. 854-2559

reidhall@columbia.edu

World Wide Web

<http://www.columbia.edu/cu/ssp>

Reid Hall, at 4, Rue de Chevreuse, in Montparnasse, is the Paris campus for Barnard College and Columbia University programs. The programs are open to students with majors in all fields. To assure validation of credits, students should work closely with their major advisers. Students should consult the current *Reid Hall Bulletin* about course offerings, which are subject to change.

Students may study at Reid Hall for one term (Autumn, Spring, or Summer) or for an entire academic year. Students in the Autumn programs may stay on for the Spring. Participation in the Reid Hall Programs (except during the Summer) requires a full-time commitment to four courses totaling at least 12 points. Students may enroll in a fifth course with the permission of the Director of Studies. All students should discuss their proposed program with their home college adviser and Dean of Studies prior to departure.

AUTUMN PROGRAMS

Application Deadline: March 1

1. *The Intensive French Language and Civilization Program*. Open to students with two years of college-level French or the equivalent.
2. *The French Studies in the Humanities and Social Sciences Program*. Open to students with three years of college-level French or the equivalent. The third-year courses may be in literature, culture, grammar, composition, or conversation. Students may take up to two of their courses in the French university system.
3. *The Art History Program*. Open to students in good standing who have completed two years of college French or the equivalent and one introductory art history course with grades of B or better.
4. *The Supervised Research Program*. Open to students with three years of college-level French or the equivalent with grades of A- or better. Students may take up to three courses in the French university system and in addition must complete a mémoire, a research paper of publishable quality of at least 30 pages in length.

SPRING PROGRAMS

Application Deadline: October 1

1. *The Intensive French Language and Civilization Program*.
2. *The French Studies in the Humanities and Social Sciences Program*.
3. *The Supervised Research Program*.
4. *Political Science Program*. Open to students with three years of college-level French or the equivalent and a strong background in the social sciences.

ACADEMIC-YEAR PROGRAMS

Application Deadline: March 1

1. Students in the above-mentioned Autumn programs may stay on for the Spring. A variety of program options are available and are included in the descriptions of the Autumn programs.
2. *The Academic-Year Program*. Open to students who have completed three years of college French with distinction. Students study at Reid Hall and in the French university system and write a thesis.

Courses Offered at Reid Hall in Paris

French H 3003x, y
Phonetics

—D. Manesse, D. Barret
3 points.

French H 3334x, y
Introduction to Literary Study:
From the 18th Century to the Present

—C. Valéro
Credit is not granted for both BC 3022 and H 3334 (or C3334 or F 3334).
3 points.

French H 3405x, y
Third-year Grammar and Composition I
—M.M. Charlier, C. Rouquette
3 points.

French H 3406x, y
Third-year Grammar and Composition II
—M.M. Charlier, C. Valéro, C. Rouquette
3 points.

French H 3131x, y
Third-year Conversation I Aural/Oral Skills:
Phonetics and Oral Expression
—M.M. Charlier
3 points.

French H3431x, y
Fourth-year Grammar and Composition I
—M. Hamon
3 points.

French H 3432x, y
Fourth-year Grammar and Composition II
—D. van de Velde
Prerequisite: French H3431 or its equivalent.
3 points.

French H 3625x, y
Literary Analyses of French Culture
—I. Roymer
3 points.

French H 3334x, y
Introduction to Literary Study:
From 1800 to the Present
—M. Camille-Martin
3 points.

French H 3602x, y
Contemporary French Literature
—M. Camille-Martin
3 points.

French H 3991x-H 3992y
Supervised Study in the
French University System

Study in the French university system in the area of the student's choice under the supervision of the Director of Studies.
2 to 15 points each term.

French H 3997x-H 3998y **Supervised Research in France**

2 to 6 points each term.

The following courses are also offered at Reid Hall. For complete descriptions, see the appropriate departmental section of this bulletin or the *Reid Hall Programs Bulletin* available at 303 Lewisohn Hall.

Art History H 3320y. *Medieval Art and Architecture.*

Art History H 3430x, y. *Renaissance and 17th-Century Art and Architecture.*

Art History H 3604x, y. *Seminar: Contemporary French Art.*

Art History H 3545x. *French Painting and Modernity, 1740-1890 (in English).*

Art History H 3682. *Issues in 19th-Century Art: Manet and Modern Paris (in English).*

Art History H 3690x. *Chateaux and Landscape Architecture in Paris and the Île-de-France*

Art History H 3962x. *Theories of the Observer in French Art and Criticism.*

Comparative Literature H 3251x, y. *Aesthetics.*

History H 2503x, y. *Introduction to French Civilization and Culture.*

History H 3460x, y. *Intellectual and Social History of Paris.*

History-Political Science H 3240x, y. *The State and Political Life in France from the Revolution to the Present.*

History-Political Science H 3260x, y. *The French Intellectual and France in Crisis: From the Dreyfus Case to May 1968.*

Philosophy H 3550x, y. *Aspects of Contemporary French Thought.*

Political Science H 3210x, y. *France and Africa: Post-colonial Relations.*

Political Science H 3270y. *The Politics of French Identity*

Women's Studies H 3550x, y. *Women and Society in France.*

SUMMER PROGRAMS

The Columbia University Summer Session regularly offers courses at Reid Hall. A six-week summer term, in operation during June and July, is open to Columbia University and Barnard College students, qualified students from other institutions, and persons without current academic affiliation. All courses are offered for academic credit. The program offers grammar and composition, conversation, phonetics, art history, and literature. Reid Hall assists students in locating housing, including dormitory facilities in the Cité Universitaire. Interested students should obtain the Reid Hall Summer Student Information Packet, available beginning April 1, from the Reid Hall Programs office, 303 Lewisohn Hall, Columbia University, New York, N.Y. 10027, (212) 854-2559.

Associate Professor: Michael Levine (Departmental Representative)

Assistant Professor: Erk Grimm

Senior Associate: Marvin Shulman

Courses in German are designed to develop proficiency in language skills and to present the traditions as well as the current developments in the literature and culture of the German-speaking countries: Austria, Germany, and Switzerland.

The language requirement in German is fulfilled by the completion of V 1202 *Intermediate Course II*. Entering students with a previous knowledge of German will be placed in the appropriate course on the basis of their CEEB scores or in accordance with their achievements on a placement test taken prior to registration.

Three levels of language instruction are offered with an equal emphasis on reading, writing, oral comprehension, and speaking. The *Elementary Full-Year Course*, German V 1101-V 1102, includes a series of cassettes that the students will use to supplement their five classroom contact hours. In the *Intermediate Course I and II*, German V 1201 and V 1202, fictional prose provides a basis for expanding the students' knowledge of contemporary life and thought in the German-speaking countries. BC 3005x, 3006y *Advanced German* provides opportunity for intensive practice in speaking and writing German. These courses may be taken in reverse sequence. They are recommended as complementary companion courses to lecture/reading-oriented courses.

Satisfactory completion of or exemption from V 1202 is required for enrollment in any of the advanced courses; the sequences in which these should be taken will be determined in consultation with the department.

The following programs are available to prospective students in the German department.

The Major in German Language and Literature.

The courses comprising this program are all taught in German with the twofold objective of combining the study of significant works, literary trends, and cultural manifestations with advanced practice in the use of German as a medium of intellectual communication.

Requirements: 10 courses

GER BC 3005x and/or 3006y *Advanced German Conversation and Composition*
(3 pts. each)

GER BC 3011 *Introduction to German Literature and Civilization*

GER BC 3061 *Seminar*

Five one-term advanced literature courses chosen from GER V 3014-3048

A third advanced language course may be substituted for one advanced literature course.

GER BC 3062x or y *Senior Essay*

A half-hour oral exit examination is required.

The Major in German Studies

This major combines a study of literature with other aspects of German culture and civilization by choosing courses from the social sciences such as history, political science, and economics, and from other humanities dealing with the German-speaking regions of Europe.

The department will assist and advise those students who are interested in opportunities to study in Germany or Austria.

Requirements: 14 courses

Two or three of the following language courses or their equivalent:

GER BC 3005-3006

Four or five one-term Advanced Literature and Culture courses numbered:

GER BC 3011-3048

One GER BC 3062x or y *Senior Essay**

Six one-term courses in the Social Sciences and Humanities that relate to the German-speaking countries of Europe and define a special field of interest (to be chosen in consultation with the major adviser). Two courses dealing with German history are strongly recommended.

* The major adviser in the German department will work with a second reader in another field if the thesis topic should require it.

A half-hour oral exit examination is required.

The Combined Major: German and Another Field

Requirements: 14 courses

Seven courses in each department, including a seminar in one of the departments and a senior essay on a topic bridging both fields.

A student who selects a combined major will establish her special program in consultation with the departments concerned.

The Minor in German

Requirements: 5 courses

Advanced language courses from GER BC 3005-6 and GER BC 3011.

A minimum of three additional advanced literature courses from GER V 3014-47/48

COURSES OF INSTRUCTION

LANGUAGE COURSES

GER V 1101x-1102y

Elementary Full-Year Course

Fundamentals of German grammar, comprehension of the spoken language, reading, writing, and speaking. Intensive aural-oral practice.

—M. Shulman and Staff

No credit is given for V 1101x unless V 1102y has been satisfactorily completed.

4 points.

GER V 1101y

Elementary Full-Year Course, Part I

Same as V 1101x, but given in the Spring term.

—M. Shulman

No credit is given for V 1101 unless V 1102 has been satisfactorily completed.

4 points.

GER V 1102x

Elementary Full-Year Course, Part II

Same as V 1102y, but given in the Autumn term.

—M. Shulman

4 points.

GER V 1201x

Intermediate Course I

Complete grammar review through regular exercises. Texts by modern authors are used for close and rapid reading and writing exercises. Practice in con-

versation aims at enlarging the vocabulary necessary for daily communication. —M. Shulman and Staff

Prerequisite: V 1102 or the equivalent.

4 points.

GER V 1201y

Intermediate Course I

Same as V 1201x, but given in the Spring term.

—M. Shulman

Prerequisite: V 1102 or the equivalent.

4 points.

GER V 1202y

Intermediate Course II

Language study based on literary texts: several short stories, one short novel. Assignments include compositions in German and exercises of grammatical forms, both related to the texts. Class discussions in German provide oral and aural practice.

—Staff

Prerequisite: V 1201 or the equivalent.

4 points.

GER V 1202x

Intermediate Course II

Same as V 1202y, but given in the Autumn term.

—Staff

Prerequisite: V 1202 or the equivalent.

4 points.

GER V 3005x, 3006y**Advanced German Conversation and Composition**

Intensive practice in oral and written German. Discussions, oral reports, weekly written assignments, based on material of topical and stylistic variety taken from the German press and from literary sources. Use of tape cassettes for grammar review as required by students' individual needs. Courses may be taken in reverse sequence.

—Staff

2 points. Sec. 1

3 points. Sec. 2

GER W 1112x, y**Elementary Conversation**

—Staff

2 points.

GER W 1120x, y**Preparation for Intermediate German**

—Staff

4 points.

GER W 1521x, y**Intermediate Conversation I**

—Staff

2 points.

GER W 1522x, y**Intermediate Conversation II**

—Staff

2 points.

GER W 1113x, y**Reading I**

—Staff

2 points.

GER W 1114x, y**Reading II**

—Staff

2 points.

GER W 1213x**Intermediate Reading I**

—Staff

2 points.

GER W 1220x**Berlin**

—Staff

4 points.

GER W 1220x**Berlin Lab**

—Staff

2 points.

GER W 3002y**Advanced German Composition**

—Staff

3 points.

GER W 4090y**German for International and Public Affairs**

—R. Korb

3 points.

LITERATURE COURSES

The literature courses listed below are conducted in German. Papers may be written in German or English.

GER BC 3011x**Introduction to German Literature and Civilization**

German literature in a historical-cultural context from the late 18th to the 20th centuries. Selected readings from Lessing to Handke.—Staff

Prerequisite: V 1202 or the equivalent.

3 points.

III H

GER BC 3027y**Modern German Literature and Culture: 1900-1945**

Prerequisite: V 1202 or the equivalent.

3 points.

III H

GER BC 3028y**Contemporary German Literature from the End of World War II to the Present**

Critical analysis of works by writers from Germany, Austria, and Switzerland: Böll, Bachmann, Frisch, Grass, Wolf, Hein, Maron, Jelinek, and others.

—M. Levine

Prerequisite: V 1202 or the equivalent. Alternate years.

3 points.

III H

GER BC 3029**Literature and the Uncanny**

Study of the "uncanny" as a literary, psychological, and mythological motif focusing on phenomena such as ghosts, doubles, and automatons. Particular attention to the threatening sources of the "uncanny"; its impact on narrative structures; its effects on the reader and its relation to memory and notions such as "shock" and "terror." —M. Levine

Prerequisite: V 1202 or the equivalent.

3 points.

III H

GER BC 3031**Germany Poetry: 1800-1990**

Survey of major poets in the German language from classicism to modernism and postmodernism, paying attention to the transition from

traditional verse to avant garde forms. Readings from Hölderlin, Heine, Rilke, Celan, Kaschnitz. Relevant areas of literary theory will be included. —E. Grimm

Prerequisite: V 1202 or the equivalent.

3 points. Offered in 1998-99.

III H

GER BC 3046y

German Literature in the 18th Century

Prerequisite: V 1204 or the equivalent. Alternate years.

3 points. Not offered in 1997-99.

See GER BC 3061x.

III H

GER BC 3035

Media Stories

Close analysis of the interrelation between literature and information technologies from the late 19th century to the present day. Emphasis on the discussion of ethical and aesthetic issues. Readings include Mann, Keun, Brecht, Chomsky, Virilio, and Baudrillard. Films by Lang, Trotta, and Wenders. —E. Grimm

Prerequisite: V 1202 or the equivalent.

3 points.

III H

GER BC 3050

German Migrant Literature

Examination of migration and the nomadic experience in the 19th and 20th centuries. Emphasis on the comprehension and construction of the "other" culture by travelers and migrants in fictional texts; and on questions of orientalism, colonialism, and multiculturalism. Readings include Chamisso, Humboldt, Raabe, Lasker-Schüler, Ören, Atabay, Deleuze, Said, and Taylor. —E. Grimm

Prerequisite: V 1202 or the equivalent.

3 points. Not offered in 1997-98.

III H

GER BC 3061x

Seminar: German Romanticism

Examination of the interrelationship of literature, philosophy, and literary criticism in the writings of the German Romantics. Particular focus on questions of fragmentation, genre, myth, wit, and irony. Texts by Friedrich and August Schlegel, Novalis, Hölderlin, Günderode, Hoffmann, Heine, and Tieck as well as critical works by Blanchot, Lacoue-Labarthe, Nancy, Kittler, and Benjamin. —M. Levine

4 points.

GER BC 3062y

Senior Essay: Literature or German Studies

Supervised research into German literatures and cultures culminating in a critical paper.

—E. Grimm and M. Levine

Open to senior majors. Permission of the instructor required.

3 points. Regular consultations with the instructor at hours to be arranged.

GER W 3220x

Berlin: Past and Present

—R. Korb

3 points.

GER W 3333x

Introduction to German Literature

—B. Brandt

3 points.

GER W 3334y

Introduction to Contemporary German Culture

—B. Brandt

3 points.

GER W 3443x

Survey of German Literature: 18th Century

—D. Martyn

3 points.

GER W 3444y

Survey of German Literature: 20th Century

—D. Martyn

3 points.

GER W 3670x

Marx, Nietzsche, Freud

—D. Purdy

3 points.

GER W 4400x

Reason and Redemption: Jews in Weimar

—W. Goetschel

3 points.

GER W 4442x

The Ring

—F. Kittler

3 points.

COURSES GIVEN IN ENGLISH

GER W 3510x
Weimar Cinema—D. Levin
3 points.**GER W 4200x**
German Intellectual History—W. Goetschel
3 points.**GER W 4237y**
The Culture of Memory—A. Huyssen
3 points.**GER W 4440y**
The Legacy of Nietzsche—D. Purdy
3 points.**CPL 3102**
**Getting Personal: Autobiography,
Psychoanalysis, and Feminist Theory**—M. Levine
3 points.**CPL 3103**
**Holocaust Literature and Film:
The Limits of Realism**—M. Levine
3 points.**CPL 3106**
Genius and Madness—M. Levine
3 points.**Study in Berlin**

Berlin Consortium for German Studies
303 Lewisohn Hall. 854-2559
berlin@columbia.edu
World Wide Web:
<http://www.columbia.edu/cu/ssp/berlin/>

Barnard College and Columbia University, in collaboration with John Hopkins University, Princeton University, the University of Chicago, the University of Pennsylvania, and Yale University, offer a program based at the Free University Berlin for students interested in German studies, whether literature, history, philosophy, or political science. Instruction is in German, and students with majors in all fields who have completed two, preferably three or more, years of college German (or the equivalent) and who have a 3.0 GPA may apply. To assure validation of credits, students should

work closely with their major advisers. Students may study in Berlin for an entire academic year or for the Spring semester only (Autumn only is not available). All students should discuss their proposed programs with their home college advisers and the Dean of Students prior to departure. A bulletin with more complete information about all aspects of the program and an application form is available in the Berlin Consortium Office.

Academic Year Program

Application deadline: March 1

Spring Program

Application deadline: October 15

**COURSES OFFERED AT THE BERLIN
CONSORTIUM FOR GERMAN STUDIES**

Consult the Berlin Consortium bulletin for a representative sample of courses available at the Free University Berlin.

German I 3335-I 3336x and y
The German Language Practicum (3rd year)
Prerequisite: GER W 1201-W 1202 or the equivalent. The equivalent of GER W 3335x-W3336y.
6 points.

German I 4335-I 4336x and y
The German Language Practicum
(Advanced Level)
Prerequisite: GER W 3335-W3336 or the equivalent.
6 points.

German Studies I 3991x-I 3992y
Selected Topics in German Studies
x: **Readings in the Cultural History of
Berlin: Enlightenment to Modernism
(1750-1914)**
y: **The Drama of Bertolt Brecht and the
Theatre of Berlin During the Weimar
Republic and Following World War II**
3 points.

German Studies I 3997x-I 3998y
**Supervised Study in the German University
System**
9-15 points.

German Studies I 3999x and y
**Supervised Tutorial/Research in the German
University**
3-6 points.

Professors: Mark C. Carnes, Robert A. McCaughey (Chair), Rosalind N. Rosenberg

Associate Professors: Herbert Sloan, Deborah Valenze, Nancy Woloch (Adjunct)

Assistant Professors: Lynette Jackson, Kathryn Johnson, Joel Kaye, Richard J. Lufrano, Lisa Tiersten, Lars Trägårdh

Other officers of the University offering courses in History:

Professors: Roger S. Bagnall, Alan Brinkley, Richard Bulliet, Richard Bushman, Caroline Bynum, David Cannadine, Istvan Deák, Barbara Fields, Eric Foner, Carol Gluck, Arthur Goren, Victoria de Grazia, Leopold H. Haimson, William V. Harris, Martha Howell, Kenneth Jackson, Ira Katznelson, Herbert S. Klein, Gari K. Ledyard, Hollis R. Lynch, Edward Malefakis, Manning Marable, Robert O. Paxton, Eugene Rice, David J. Rothman, Simon Schama, James P. Shenton, J.W. Smit, Henry Smith, Robert Somerville, Michael Stanislawski, Nancy Leys Stepan, Fritz Stern, H. Paul Varley, Isser Woloch, Richard Wortman, Marcia Wright, Yosef H. Yerushalmi, Madeleine Zelin

Associate Professors: Richard Billows, Elizabeth Blackmar, Joshua Freeman, Atina Grossman, Robert Hymes, Ayesha Jalal, Deborah Levenson-Estrada, Mohamed Mbodj, Marc Van de Mieroop, Mark von Hagen

Assistant Professors: David Armitage, Mahmud Haddad, Winston James, Silvana Patriarca, James Rives, Daryl Scott, Anders Stephanson

History, which includes the whole of human experience, helps us understand ourselves in the context of our own times and traditions through the study of times and traditions different from our own. It provides perspective on the present through examination of change and continuity in the development of our political, economic, social, religious, and cultural ideas and institutions. History means not only the record of the past but also the discipline of investigation and interpretation of the past. There is no one way of doing history, but doing history necessarily involves the collection and evaluation of various types of evidence—quantitative as well as qualitative—from primary sources. The study of history, which develops habits of critical thinking and effective writing, should be of value not only to undergraduates who intend to pursue advanced degrees in the field, but also to all students interested in exploring the diversity and complexity of the human past and in improving their analytical and expository skills.

Barnard history courses are numbered according to the following scheme of classification:

- 1000-level: introductory lecture courses
- 3000-level: advanced lecture courses
- 3400-level: seminars
- 3700-level: senior research seminars
- 3900-level: independent research seminars

Lecture courses are defined more broadly—chronologically, geographically, thematically—than seminars, which characteristically involve reading and discussion of primary and secondary sources on more specialized subjects. Students must apply for admission to seminars by filling out forms available in the departmental office. Deadline for applications for Spring 1997 seminars: November 15, 1996. Deadline for applications for Autumn 1997 seminars: March 28, 1997.

Students should consult the Columbia College catalogue for full descriptions of Columbia history courses and for regulations concerning enrollment in these courses. Application forms for Columbia seminars, due by the deadlines mentioned above, are available in 611 Fayerweather and in 415 Lehman. Certain Columbia graduate (“G”) courses are open to qualified history majors with the approval of the Barnard chair and the Columbia instructor. For course descriptions, see the *Bulletin of the Graduate School of Arts and Sciences*.

Students will receive six points of College credit for a score of 5 and three points of credit for a score of 4 on the Advanced Placement Examination in American or European history. These credits are not counted toward the history major.

REQUIREMENTS FOR THE MAJOR

Students who intend to major in history should consult a member of the department in their sophomore year to plan their academic programs.

The history major requires a minimum of eleven courses, eight in the area of concentration and three outside the area of concentration. The three principal areas of concentration are European, American, and Asian history, but majors may, in consultation with their advisers and with the approval of the chair, concentrate in some other field, such as ancient, medieval, Jewish, or African history. The eleven required courses must include:

- 1. Three introductory courses (i.e., 1000-level courses or their equivalent). For Barnard Class of 1998 and those expecting to graduate, two of the introductory courses must be taken in the field of concentration. Students with AP credits may substitute an advanced course(s) for introductory course(s), although AP credits may not be counted toward the eleven required courses.
- 2. Two seminars
- 3. The two-semester senior research seminar (HIS BC 3793-3794).

Majors may, with the approval of their advisers, take two of their eleven courses outside the department, provided that such courses are closely related to their concentrations. American Studies seminars may be substituted for History seminars.

SENIOR RESEARCH SEMINAR

The senior research seminar, in which students write their senior essays (30-50 pages), represents the culmination of the undergraduate history major. Students should discuss tentative topics with their advisers by the end of the junior year. Halfway through the first semester of the senior year students must submit a formal prospectus defining the problem under investigation, outlining the issues involved, and identifying the primary and secondary sources consulted. They must draft part of the essay by the end of the Autumn semester, then complete their research and writing in the Spring.

REQUIREMENTS FOR THE MINOR

The minor in history requires five courses, four in an area of concentration and one outside the concentration. The five courses must include one seminar. Students planning to minor in history should consult the department chair.

For related majors see: **American Studies**, page 59; **European Studies**, page 166.

COURSES OF INSTRUCTION

LECTURES: ANCIENT, MEDIEVAL, JEWISH, AND MODERN EUROPEAN HISTORY

HIS BC 1004x
Introduction to Later Middle Ages: 1050-1450
Social environment, political, and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and modern historical writings. —J. Kaye
3 points. III S

HIS BC 1011x
Introduction to European History: Renaissance to French Revolution
Political, economic, social, religious, and intellectual history of early modern Europe, including the Renaissance, Reformation and Counter-Reformation, absolutism, Scientific Revolution, and Enlightenment. —D. Valenze
3 points. III S

HISTORY

<p>HIS BC 1012y Introduction to European History: French Revolution to the Present Emergence of revolutionary and counter-revolutionary mass political movements; European industrialization, nationalism, and imperialism; 20th-century world wars, the Great Depression, and Fascism. —L. Tiersten 3 points. III S</p>	<p>HIS W 1004y Ancient History of Egypt —M. Van de Mieroop 3 points. II S</p>
<p>HIS BC 3005x Nationalism in Modern Europe A comparative investigation of nationalism in modern Europe, in both its benign and lethal forms, from Lillehammer, Norway to Sarajevo, Bosnia. Examines the search for national identity, community, and solidarity, along with its darker counterparts: xenophobia, racism, ethnic cleansing, the Holocaust. —L. Trägårdh 3 points. Not offered in 1997-98. III S</p>	<p>HIS W 1005x Survey of Ancient Greek History, 800-146 B.C.E. —R. Billows 3 points. III S</p>
<p>HIS BC 3026y Medieval Intellectual Life, 1050-1400 The development over three centuries of a language of the heart, of the intellect, and of the polity. Primary readings in devotional and courtly literature, university speculation, and political thought, discussed in their historical and cultural context. —J. Kaye 3 points. III S</p>	<p>HIS W 1006y The Romans, 754 B.C.-565 A.D. —W. Harris 3 points. III S</p>
<p>HIS BC 3038y European Women in the Age of Revolution, 1700-1890 An exploration of the origins of the “modern” European woman: changing political and legal definitions of women; new concepts of women’s work and authority during industrialization; women’s involvement in religion and reform; emergence of socialist and feminist critiques of 19th-century womanhood. —D. Valenze 3 points. III S</p>	<p>HIS W 1151x European History Since 1789 —V. de Grazia 3 points. III S</p>
<p>HIS BC 3039x The “Civilizing Process”: European Encounters with Non-Western Cultures The shaping of European cultural identity through encounters with non-European cultures from 1500 to the post-colonial era. Novels, paintings, and films will be among the sources used to examine such topics as exoticism in the Enlightenment, slavery and European capitalism, Orientalism in art, ethnographic writings on the primitive, and tourism. —L. Tiersten 3 points. III S</p>	<p>HIS W 3577y History of Israel, 1948-Present —M. Stanislawski 3 points. II S</p>
	<p>HIS W 3150y World War II —E. Foner 3 points. III S</p>
	<p>HIS W 3205x European Society and Politics, 1850-1914 —S. Patriarca 3 points. III S</p>
	<p>HIS W 3206y European Society and Politics, 1914-1945 —R. Paxton 3 points. III S</p>
	<p>HIS W 3207y European Politics and Society Since 1945 —V. de Grazia 3 points. III S</p>
	<p>HIS W 3222y Britain and the World, 1453-1707 —D. Armitage 3 points. III S</p>
	<p>HIS W 3513x Anti-Judaism and Anti-Semitism in Historical Perspective —Y. Yerushalmi 3 points. II S</p>

SEMINARS:

ANCIENT, MEDIEVAL, JEWISH,
AND MODERN EUROPEAN HISTORY

All seminars require permission of the instructor. Enrollment is limited to 15.

HIS BC 3400y**Introduction to Historical Theory and Method**

A writing-intensive introduction to modern historical theories and methods. Emphasis on the critical reading of a wide range of primary and secondary historical sources. —J. Kaye
Recommended for, but not limited to new history majors.
4 points. III S

HIS BC 3410y**The City in Europe**

A social history of the city in Europe from early modern times; the economic, political, and intellectual forces influencing the growth of Paris, London, Vienna, and other urban centers. —D. Valenze
4 points. *Not offered in 1997-98.* III S

HIS BC 3412x**Medieval Economic Life and Thought
ca. 1000-1500**

Traces the development of economic enterprises and techniques in their cultural context: agricultural markets, industry, commercial partnerships, credit, large-scale banking, insurance, merchant culture. Examines usury and just price theory, the scholastic analysis of price and value, and the recognition of the market as a self-regulating system, centuries before Adam Smith. —J. Kaye
4 points. III S

HIS BC 3416y**Medieval Science and Society**

The evolution of scientific thinking from the 12th to the 16th centuries, considering subjects such as cosmology, natural history, quantification, experimentation, the physics of motion, and Renaissance perspective. At every point we link proto-scientific developments to social and technological developments in the society beyond the schools. —J. Kaye
4 points. III S

HIS BC 3429x**Consumer Culture in Modern Europe**

The development of the modern culture of consumption, with particular attention to the formation of the woman consumer. Topics include commerce and the urban landscape, changing attitudes toward shopping and spending, feminine fashion and conspicuous consumption, and the birth of advertising. Examination of novels, fashion maga-

zines, and advertising images. —L. Tiersten
4 points. III S

HIS BC 3433y**European Welfare State and the Family:
1919-1980**

The history of the family and family policy in 20th-century Europe in the context of the emerging welfare state. Themes will include the patriarchal family, the emancipation of women, the rights and protection of children, family values versus individual rights, and the state versus civil society. —L. Trägårdh
4 points. *Not offered in 1997-98.* III S

HIS BC 3442y**The Politics of Leisure in Modern Europe**

Transformations in the culture of leisure from the onset of industrialization to the present day. Relations between elite and popular culture and the changing relationship between the work world and the world of leisure will be among the topics considered in such settings as the department store, the pub, the cinema, and the tourist resort. —L. Tiersten
4 points. III S

HIS BC 3445x**Poverty and the Social Order in Europe**

Historical study of poverty and social formations from the late Middle Ages to the 20th century. Topics include institutional responses to vagrancy in the 17th century; religion and the rise of capitalism; crime and the poor; philanthropy and the state; and motherhood and poverty. —D. Valenze
4 points. III S

HIS BC 3448x**Germany and Europe: From Napoleonic
Invasions to the Fall of the Wall**

Explores the so-called "German Question" as it has continued to haunt and challenge Germans and other Europeans from the time of the Napoleonic Wars until the (re)unification in 1990. Themes will include the vexing question of "What is Germany?"; the various competing and often contradictory quests for national unification and statebuilding; and the struggle over precisely what constitutes German national identity.
4 points. *Not offered in 1997-99.* III S

HIS BC 3791x-3792y**Senior Research Seminar**

Individual research and writing in medieval, early modern, and modern European history. See Requirements for the Major for details. —Staff
4 points.

HISTORY

HIS W 3759y Religious Dissent in the Roman Empire —J. Rives 4 points.	II	S	LECTURES: AMERICAN HISTORY
HIS W 3795y Society and Politics in the Gilded Age —E. Blackmar 4 points.	III	S	HIS BC 1051x Survey of American Civilization to the Civil War The major theological and social concerns of 17th-century English colonists; the political and ideological process of defining an American; the social and economic forces that shaped a distinctive national identity; the nature of the regional conflicts that culminated in civil war. —H. Sloan 3 points. III S
HIS W 3802y The Hellenistic World —R. Bagnall 4 points.	II	S	HIS BC 1052y Survey of American Civilization Since the Civil War The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political thought from Reconstruction to the New Deal; selected topics on post–World War II developments. —R. Rosenberg 3 points. III S
HIS W 3856y Medieval Religious Thought and Practice —C. Bynum 4 points.	III	S	HIS BC 3052y The Constitution in Historical Perspective The development of constitutional doctrine, 1787 to the present. The Constitution as an experiment in Republicanism; states’ rights and the Civil War amendments; freedom of contract and its opponents; the emergence of civil liberties; New Deal intervention and the crisis of the Court; and the challenge of civil rights. —H. Sloan 3 points. III S
HIS W 3867y The Brutalization of Europe in Thought and Practice, 1900-1989 —F. Stern 4 points.	III	S	HIS BC 3067y America Since 1945 A consideration of the Cold War, containment, and the atomic bomb; McCarthyism; the Civil Rights movement; the Vietnam War; student unrest and the counterculture; and the response to the 1960s. Emphasis on relation between domestic and foreign affairs. —M. Carnes 3 points. III S
HIS W 3913x The Destruction of a Republic: Roman History in the Age of Caesar and Augustus —W. Harris 4 points.	III	S	ASH BC 3002y Approaches to American Culture, 1607-1865 An interdisciplinary consideration of early American culture, combining traditional approaches of literary, historical, environmental and material-culture studies with the intertextual thrust of the “new” American Studies. Draws extensively upon resources available electronically and locally throughout New York City. —L. Gordis and R. McCaughey 3 points. III S
HIS W 3990y Gender and Work in Modern Europe —S. Patriarca 4 points.	III	S	
HIS W 3922x The French Revolution —I. Woloch 4 points.	III	S	
HIS W 3967y Personality and Society in 19th-Century Russian Thought —R. Wortman 4 points.	III	S	
HIS W 3978x America in Europe, 1920-1990 —V. de Grazia 4 points.	III	S	
HIS W 3989x Hasidism —M. Stanislawski 4 points.	III	S	

HIS BC 3082x**American Women in the 20th Century**

A consideration of women's changing place in modern America; the "family claim"; women in the workplace; educational expansion; the battle for suffrage; social reformers; the sexual revolution; women in the professions; the crisis of depression and war; the feminine mystique; and the new feminism. —R. Rosenberg

3 points. III S

HIS BC 3083x**American Intellectual History to the Civil War**

3 points. III S

HIS BC 3084y**American Intellectual History Since 1865**

An examination of the major ideas engaging American intellectuals from Appomattox to the present, with special attention to their institutional settings. Topics include Darwinism, the rise of the professoriate, intellectual progressivism, inter-war revisionism, Cold War liberalism, and neo-conservatism. —R. McCaughey

3 points. Not offered in 1997-99. III S

HIS W 1109x**U.S. History Since 1789**

—R. Bushman
3 points. III S

HIS W 3121x**U.S. in the Era of Slavery and Democracy**

—E. Foner
3 points. III S

HIS W 3620x**America, 1890-1918: The Progressive Era**

—A. Brinkley
3 points. III S

HIS W 3643y**Slavery and Slave Resistance in the Americas**

—W. James
3 points. III S

HIS W 3651y**America Since 1945**

—A. Brinkley
3 points. III S

HIS W 3660x**Harlem: A Social and Cultural History**

—W. James
3 points. III S

HIS W 3004y**African-American History Since 1865**

—D. Scott
3 points. III S

HIS W 3115x**History of Women in America, 1776-1919**

—E. Blackmar
3 points. III S

HIS W 3122y**America in the Era of Civil War and Reconstruction**

—B. Fields
3 points. III S

HIS W 3548y**American Jewish History**

—A. Goren
3 points. III S

HIS W 3648x**History of the South**

—B. Fields
3 points. III S

SEMINARS: AMERICAN HISTORY

All seminars require permission of the instructor. Enrollment limited to 15. Preregistration required.

HIS BC 2001y**Reacting to the Past**

Introduction to the past, by asking students to relive and rethink specific moments: Rousseau and revolution in France; Nietzsche, Marx, and German Socialism in 1914; Christianity and the Taiping Rebellion; Freud, Friedan, and the Equal Rights Amendment campaign of the 1970s.

—M. Carnes
Prerequisite: First-Year Seminar.
4 points. I S

HIS BC 3451y**Law and American Society**

4 points. Not offered in 1997-99. III S

HIS BC 3452x**Origins of the Constitution**

An examination of the creation of the Constitution; consequences of independence; ideological foundations; the Articles of Confederation and the Critical Period; the nationalist movement and the Convention; antifederalism and ratification; and the Bill of Rights. Readings from selected secondary and primary sources, including *The Federalist*. —H. Sloan

4 points. III S

HIS BC 3458y
War and 20th-Century American Culture
4 points. Not offered in 1997-99. III S

HIS BC 3460y
Progressive Women: 1890-1920
An exploration of women's activism in public life and social reform. Topics include separatism, institution-founding, the college experience, women's professions, the settlement movement, trade unionism, suffragism, pre-war radicalism, social feminism, and utopian feminism. —N. Woloch
4 points. III S

HIS BC 3463y
American Women in the 1920s
An exploration of women's lives from World War I to the Great Crash. Topics include women's politics, domestic roles, the female work force, collegiate life, the new morality, flaming youth, women in the Harlem Renaissance, women's literature, and the paradox of modern feminism. —N. Woloch
4 points. III S

HIS BC 3464y
Higher Learning in America
An examination of the history of American colleges and universities from the colonies to the present; special emphasis on the evolving relationship between academic institutions and the political and social orders. —R. McCaughey
4 points. III S

ASH BC 3400x
Everyday Life in Post-War America
4 points. III S

ASH BC 3401x
Approaches to American Cultural History
Colloquium—see American Studies for description. —K. Johnson
4 points. III S

HIS BC 3461x
Education in American History
A consideration of the place educational institutions, educational ideas, and educators have played in American life. Emphasis will be on the connection between education and social mobility. —N. Woloch
4 points. III S

HIS W 3740y
Telling About the South
—B. Fields
4 points. III S

HIS BC 3480y
American Women Since 1945
—N. Woloch
4 points. Not offered in 1997-98. III S

HIS BC 3487x
Approached by Sea: Early American Maritime Culture
The Atlantic Ocean in the sighting, settling, and formation of three American colonial cultures; the early U.S. as an international maritime presence; and the decline of the Atlantic in the material and imaginative development of mid-19th-century America. Approach will be interdisciplinary and will use the Internet. —R. McCaughey
3 points. III S

HIS BC 3489y
The Fourteenth Amendment and Its Uses
The role of the 14th Amendment in shaping the modern American Constitution; theories of judicial review; the rise and fall of economic due process; the creation of civil liberties; the civil rights revolution; and the end of states' rights. —R. Rosenberg
4 points. III S

HIS BC 3793x-3794y
Senior Research Seminar
Individually guided research in diverse aspects of American history and the presentation of results in seminar and in the form of the senior essay. See Requirements for the Major for details. —Staff
Open to senior majors, and to others by permission of the instructor.
4 points. III S

HIS W 3818x
History of the American University
—S. Lederman
4 points. III S

HIS W 3889y
Research Seminar in Afro-American History
—S. Patriarca
4 points. III S

HIS W 3894x
Race and Color in the Americas
—W. James
4 points. III S

HIS W 3906y
American Culture: Revolution to Civil War
—R. Bushman
4 points. III S

AAC C 3936y Black Intellectuals —M. Marable 4 points.	III S	HIS W 3005x Main Currents in African History —M. Mbodj 3 points.	II S	
HIS W 3939x Ethnicity in 20th-Century America —A. Goren 4 points.	III S	HIS W 3722x South Asia in the 20th Century —A. Jalal 3 points.	II S	
LECTURES: ASIAN, LATIN AMERICAN, AND AFRICAN HISTORY		HIS W 3718y Nation, Race, and Empire in East Asia —C. Armstrong 3 points.		II S
HIS BC 1021x Late Imperial China, 1550-1900 An introduction to China during the late Ming and Qing dynasties, with emphasis on dynastic change, commercialization, urbanization, population growth, imperialist encroachment, and mid-19th-century rebellion. —R. Lufrano 3 points.	II S	HIS W 3724x 20th-Century Korea —C. Armstrong 3 points.	II S	
HIS BC 1022y China in the 20th-Century Attempts at state formation and the rise of the revolutionary parties; foreign power intervention, economic crisis and development, and the rise of new social classes; the changing status of women and intellectual and cultural change. —R. Lufrano 3 points.	II S	SEMINARS: ASIAN, LATIN AMERICAN, AND AFRICAN HISTORY All seminars require permission of the instructor. Enrollment limited to 15. Preregistration required. See under Asian and Middle Eastern Cultures for additional courses.		
HIS BC 1030y History of Southern Africa History of Mozambique, Angola, Namibia, and Zimbabwe from the 1500s to the present. Explores pre-colonial structures, material cultures, impact of slavery and South African regional hegemony, new nations and identities, migrant cultures and economies, invented traditions, liberation movements, U.S. Southern African policy, post-colonialism, and the new imperialism. —L. Jackson 3 points.	II S	HIS BC 3430x The Cultural Revolution in China Origins, history, and the aftermath of one of the pivotal events in 20th-century Chinese history. Emphasis on ideological and power struggles, the role of the Red Guards and the army, and the effect of radical policies on society and economy. —R. Lufrano 4 points.	II S	
HIS BC 3090x Women, Gender, and Power in African History 3 points. Not offered in 1997-98.	II S	HIS BC 3443y Images of China and America Over the centuries images of the other civilization shaped intercourse between China and the West, the United States in particular. An exploration of how these images were created, how they changed over time, and how they influenced one another deepens our knowledge of Sino-American relations. —R. Lufrano 4 points.	II S	
PAS BC 3004x Introduction to African Civilizations See Pan-African Studies for description. —L. Jackson 3 points.	II S	HIS BC 3434x Memory, Orality, and African History Modern African history through critical analysis of oral historical texts. Topics include: nation building, ritual, war and conquest, the rise of capitalism, labor migrancy, changing gender roles, resistance, and the politics of liberation.		
AHH C 1020y African Civilizations —M. Mbodj 3 points.	II S			

HISTORY

Students will produce an oral history.
4 points.

III S

PAS BC 3100x
Medicine and Power in African History
Examines medical discourse and practice in Africa, emphasizing relationships between power and medical knowledge. Topics include: African therapeutic systems, African conjurers in the New World, medicine and imperialism, representing “the sick African,” the professionalization of traditional healers, and the politics of AIDS in contemporary Africa. —L. Jackson
4 points.

II S

PAS BC 3101y
Black Nationalisms in Africa and the African Diaspora
See Pan-African Studies for description.
—L. Jackson
4 points.

I S

HIS BC 3799x, y
Independent Study
—Staff
4 points.

S

HIS W 3820x
Senior Seminar on Modern Arab Nationalism
—M. Haddad
4 points.

II S

HIS W 3916y
Colonialism Through African Eyes
—M. Mbodj
4 points.

II S

HIS W 3995
Decolonization in South Asia
—A. Jalal
4 points.

II S

OTHER OFFERINGS

Full description of courses of interest to students of history offered by Barnard faculty can be found elsewhere in this catalogue under the department or interdisciplinary program in which the course is offered. For Columbia graduate history lecture courses open to undergraduates (“4000 level”) and courses jointly sponsored with other Columbia departments, see the *Columbia University Bulletin*.

COURSES OFFERED AT
REID HALL IN PARIS

The following courses are offered in Paris. Additional information about the programs is available in 303 Lewisohn Hall.

History H 2503x, y
Introduction to French Civilization and Culture

Contemporary French society in historical-cultural context: the weight of a centralized state, the defense of the French language, the Catholic tradition, France and Europe. These themes are presented, studied, and discussed in order to provide a basis for improving the comprehension of written and spoken French. —G. Gosselin
3 points.

S

History-Political Science H 3240x, y
The State and Political Life in France from the Revolution to the Present

The continuity and discontinuity of French political life during the past 200 years. Factors that assure the permanence of French political life are often hidden from view because of frequent dramatic breaks and changes in political regimes. Through analysis of moments of turmoil and change, the underlying element of permanence is traced. Key dates indispensable to the study of contemporary France are discussed. —A. Chebel-d’Appollia
3 points.

S

History-Political Science H 3260y
The French Intellectual and France in Crisis: From the Dreyfus Case to May 1968

The roles and influences of French intellectuals within the political arena and the national struggles of contemporary France. Special attention to moments of crisis; the Dreyfus case, the thirties, World War II, the Algerian War, etc. —C. Prochasson
3 points.

S

History H 3460x, y
Intellectual and Social History of Paris

A historical and architectural introduction from the city’s origins to before World War II. Establishes links between the various components (topographical, administrative, religious, military, intellectual, economic, artistic, and social) that have contributed to the vitality of Paris and forged its image in the world. —Instructor TBA.
3 points.

S

317 Milbank Hall

854-5418, 3577

- Assistant Professor:** Antonella Ansani (Department Representative)
- Associate:** Daniela Noè (Language Coordinator)
- Other officers of the University offering courses in Italian:
- Professors:** Teodolinda Barolini, Luciano Rebay
- Visiting Professor:** Pellegrino D’Acerno (1997-98)
- Associate Professor:** Jo Ann Cavallo
- Assistant Professors:** Nelson Moe, Massimo Pesaresi
- Lecturers:** Mario Bellati, Maria Luisa Gozzi, Giuseppe Trapanese

Undergraduate instruction in Italian has long been fully and successfully integrated among the various undergraduate schools—Barnard College, Columbia College, and the School of General Studies. All courses are open to Barnard students. For students who have studied other foreign languages and can acquire by intensive study the equivalent of two full years of Italian, the comprehensive elementary and intermediate course is recommended. The advanced Italian course, though part of the requirement for a major in Italian, is open to all qualified students whose main goal is to improve their competence in the language as distinct from its literature.

A major in Italian offers the advantages of closely supervised work for a small number of students. Through the seminar in Italian literature, the major can study in a chosen area under the experienced guidance of a specialist.

The courses given in English have no prerequisites and are open to students majoring in other departments who nevertheless wish to study Italian literature.

The Barnard Italian office is located in 317 Milbank, and the Columbia department is housed in 502 Hamilton.

Graduate courses are open to qualified students with permission of the instructor.

REQUIREMENTS FOR THE MAJOR

The courses in Italian are designed to develop proficiency in all the language skills and to present the literary and cultural traditions of Italy. The program of study is to be planned as early as possible.

The following courses are required unless advanced standing is attained by the Department placement examination:

ITA V 1101-V 1102	<i>Elementary Full-Year Course</i>
ITA V 1201-V 1202	<i>Intermediate Course</i>

Ten courses are required for the major, including:

ITA V 3333-V 3334	<i>Introduction to Italian Literature</i>
ITA V 3335-V 3336	<i>Italian Written and Oral Style</i>
ITA V 3993 x or y	<i>Seminar in Italian Literature</i>

plus at least five more courses in Italian numbered above ITA W 1312.

REQUIREMENTS FOR THE MINOR

A minimum of five courses is required for the minor, to be selected from courses including and numbered above ITA V 3333-V 3334.

Language Requirement

The language requirement can be fulfilled with ITA V 1101-V 1102 and V 1201-V 1202

(or their equivalents). Students who have taken courses in Italian elsewhere (whether in high school, in college, or both) but not at Barnard or Columbia must take the Italian placement test before registering for any Italian course. The test is given during the preregistration period in 502 Hamilton.

COURSES OF INSTRUCTION

ITA V 1101x-V 1102y **Elementary Full-Year Italian**

Integral course for beginners with intensive oral-aural drill; reading, translation, conversation. No credit is given for V 1101 until V 1102 has been completed. —D. Noè and Staff
Enrollment limited to 20 students per section.
4 points.

ITA F 1101x-F 1102y **Elementary Full-Year Italian**

—Staff
4 points.

ITA F 1102x, F 1101y **Elementary Full-Year Italian**

—G. Trapanese
4 points.

ITA W 1111x, W 1112y **Elementary Conversation**

Intensive practice in pronunciation, vocabulary, reading aloud, comprehension of the spoken language, and conversation. —M. Bellati
Prerequisite for W 1112: W 1111 or the equivalent, or sufficient fluency to satisfy the instructor.
Conversation courses may not be used to satisfy the language requirement.
2 points.

ITA V 1201x-V 1202y **Intermediate Italian**

Review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation. —D. Noé and Staff
Prerequisite: V/F 1102 or the equivalent. Enrollment limited to 20 students per section.
4 points.

ITA F 1201x-F 1202y **Intermediate Italian**

—G. Trapanese and Staff
Prerequisite: V/F 1102 or the equivalent.
4 points.

ITA F 1202x-F 1201y **Intermediate Italian**

—M.L. Gozzi
Prerequisite: V/F 1201 (or 1202), V/F 1102 or 1201, or the equivalent.
4 points.

ITA W 1221x, W 1222y **Intermediate Conversation**

Intensive practice in the spoken language, assigned topics for class discussions, and oral reports. —M. Bellati
Conversation courses may not be used to satisfy the language requirement. Prerequisite: ITA W 1112 or sufficient fluency to satisfy the instructor.
2 points.

ITA V 1301x-V 1302y **Comprehensive Elementary and Intermediate Italian**

Recommended for students who have studied other foreign languages and can acquire by intensive study the equivalent of two full years of work in elementary and intermediate Italian grammar with stress on reading and conversing. —G. Trapanese and Staff
This may not be used to satisfy the language requirement. Students must receive permission to register from the department in 502 Hamilton.
4 points.

ITA W 1311x, 1312y **Advanced Conversation**

Practice in the spoken language through assigned topics on contemporary Italian culture. —M. Bellati
Conversation courses may not be used to satisfy the language requirement.
Prerequisite: ITA W 1222 or permission of the instructor.
2 points.

ITA V 3335x, V 3336y **Advanced Italian**

Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review. —A. Ansani, D. Noè
Prerequisite: V 1201-1202 or the equivalent.
3 points.

LITERATURE COURSES

For non-majors, the literature courses listed below will count toward the distribution requirement.

ITA V 3227y**Contemporary Italian Women Writers**

Works by contemporary Italian women writers from the 1950s to the 1990s studied through commentary by American and Italian critics and philosophers. —D. Noé

Primary readings in lectures in Italian; some critical and theoretical works in English. Prerequisite: two years of college-level Italian or the equivalent.

3 points. III H

ITA V 3230y**The Italian Novella in the Middle Ages and the Renaissance (in English)**

A study of the origins and development of the Italian novella as literary genre. Readings include selections from Boccaccio's *Decameron* and 15th- and 16th-century novella writers.

—A. Ansani

3 points. III H

ITA V 3333x, V 3334y**Introduction to Italian Literature**

Introduction to literary theory and problems and to in-depth textual analysis. Authors and works from the 13th century to the present; the basic course in Italian literature. —J. Cavallo, L. Rebay

Prerequisite: V 1201-V 1202 or the equivalent.

3 points. III H

ITA V 3449y**Modern Italian Literature**

Nineteenth- and 20th-century prose and poetry. Texts read in the original. Lectures and class discussions in both Italian and English. —L. Rebay

Prerequisite: ITA V 1202 or F 1202 or the equivalent.

3 points. Offered in 1998-99. III H

ITA V 3468**Italian Poetry from St. Francis of Assisi to the Dolce Stil Nuovo**

Prerequisite: ITA F 1202 or V 1202 or the equivalent, or sufficient knowledge of the language to follow readings with the aid of translations.

3 points. III H

ITA V 3635x**Italian Renaissance Literature and Culture**

Key texts of the period with an emphasis on Florentine literature and culture of the 15th and early 16th centuries. Topics include literary criticism and art theory in the light of Florentine civic

humanism, popular and courtly chivalric poetry, theology and philosophy, and politics. Lectures in English, texts in Italian. —Instructor TBA.

Prerequisite: ITA F 1202 or V 1202, or the equivalent.

3 points. Offered in 1998-99. III H

ITA V 3642y**Contemporary Italian Arts: Italian Film (in English)**

Survey of representative films from the Neorealist period to the 1980s. Screening of films by Rossellini, DeSica, Visconti, Fellini, Antonioni, Bertolucci, and other major directors. —N. Moe

Film fee of \$50 to be paid upon registration.

3 points. Offered in 1998-99. III H

ITA V 3891x**Dante, La Divina Commedia**

An introduction to the *Divine Comedy*, with emphasis on textual analysis and the appreciation of Dante's masterwork as a poetic text. Readings and lectures in Italian; class discussion and written assignments in either English or Italian. —L. Rebay

Prerequisite: Two years of college-level Italian or the equivalent.

3 points. III H

ITA V 3993x, y**Seminar in Italian Literature**

Required of students with a major or concentration in Italian. Open to other qualified students with permission of departmental representative.

—A. Ansani, T. Barolini, J. Cavallo, N. Moe, M. Pesaresi, L. Rebay

H

ITA W 4039x**Imitation and Innovation in Italian Renaissance Theatre**

A study of several major 16th-century Italian plays, focusing on comedy, but also exploring tragedy, *favola pastorale*, and *tragicommedia*.

Readings will include plays by Bernardo Dovizi da Bibbiena, Ariosto, Machiavelli, Bruno, Aretino, Trissino, Tasso, and Guarini. —A. Ansani

Prerequisite: Two years of college-level Italian or the equivalent.

3 points. III H

ITA W 4048**Women in the Italian Renaissance**

An examination of 15th- and 16th-century writings by and about women. Topics include the education of women, women and the family, the notion of women and the woman writer, women at court, the *querrelle des femmes*, poet-courtesans, rape, and pornography. —A. Ansani

Prerequisite: A reading knowledge of Italian.
3 points. Offered in 1998-99. III H

ITA W 4200
**Once Upon a Time, in a Faraway Land:
The Italian Fairy Tale** (In English)
A study of the Italian fairy tale from its oral folk origins to the first literary examples, viewed from a variety of critical approaches, including the formalist, folkloric, and psychoanalytic. —A. Ansani
Prerequisite: Permission of the instructor. Optional 4th hour in Italian for majors/minors.
3 points. III H

ITA W 4091x-W4092y
Dante's *Divina Commedia*
A one-year course in which the *Commedia* is read over two consecutive semesters for a thorough grounding in the entire text and an introduction to the complexities of its exegetical history. Particular attention is given to Dante's mimesis, his construction of an authorial voice that generations of readers have perceived as "true." —T. Barolini
Prerequisite: ITA V 1202 or F 1202, or the equivalent.
3 points. III H

ITA W 4502x
**Italian Cultural Studies I:
From Unification to World War I**
An interdisciplinary study of Italian culture from the years of unification (1860) to the outbreak of World War I. —P.D'Acerno, N. Moe
3 points. III H

ITA W 4503y
**Italian Cultural Studies II:
From World War I to Present**
An interdisciplinary study of Italian culture from World War I to the present. —P.D'Acerno, N. Moe
3 points. III H

For additional offerings, and graduate courses open to undergraduate students with permission of the instructor, please contact the Italian Department at Columbia.

Professor: Joseph L. Malone (Chair)

REQUIREMENTS FOR THE MAJOR

Students interested in majoring in this discipline may, upon consultation with the Departmental Chair or his designated representative, petition the Committee on Programs and Academic Standing for a special major in Linguistics (see page 32).

REQUIREMENTS FOR THE MINOR

Students minoring in Linguistics must take five courses in the department, including V 1101.

COURSES OF INSTRUCTION

LIN V 1101x

Introduction to Linguistics

Nature of language; characteristics of phonological and grammatical systems and the lexicon; evolution of language; role of linguistics in related disciplines; modern techniques of linguistic analysis. —J. Malone

Enrollment limited to 100 students. Advance sign-up required.

3 points.

S

LIN V 3410y

The Science of Linguistics and the Art of Translation

Linguistic patterns and the application of linguistic techniques in both the process of translation and the comparison of original and translated versions of a text. Texts include literary, biblical, and journalistic material in bi- or multilingual versions, and students will use materials in languages familiar to them for analysis and translation. —J. Malone

Prerequisite: V 1101 or permission of the instructor.

Enrollment limited to 20 students. Advance sign-up required. Offered in rotation with V 3412.

3 points.

S

LIN V 3412y

Linguistics and the Translation of Poetic Language

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g., by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include monolingual and bilingual texts (poems, proverbs, etc., in several languages), some chosen by the instructor and others by the students.

Prerequisite: V 1101 or permission of the instructor.

Enrollment is limited to 20 students. Advance sign-up required. Offered in rotation with V 3410.

3 points.

S

LIN BC 3600y

Introduction to Semitic Languages and Linguistics

The Semitic language: historical development and typological nature. Reconstruction of ancestral languages; dialect relations; writing systems; philology; morphosyntactic, phonological, and semantic characteristics. —J. Malone

Enrollment limited to 20. Advance sign-up required.

Prerequisite: Previous or concurrent work in some Semitic language, or permission of the instructor.

3 points.

S

LIN W 4108y

Principles of Historical Linguistics

Language change and linguistic reconstruction. The comparative method and internal reconstruction; patterns of linguistic change, borrowing and analogy; language change as rule change; writing systems and philology. —J. Malone

Prerequisite: For undergraduates, either V 1101 or permission of the instructor.

3 points.

LIN W 4204x

Introduction to Phonology

The systemic deployment of speech sounds at the service of language's morphosyntax.

Alternational phonology; rules and representation; phonological features; linear and nonlinear phonology (autosegments, tiers); metrical and grid phonology; prosodology. —J. Malone

Prerequisite: For undergraduates, either V 1101 or permission of the instructor.

3 points.

LIN W 4903x

**Semantics and Generative-Transformational
Syntax**

Contemporary approaches to the relation between linguistic meaning and form, with special emphasis on work within the Chomskian tradition. Transformational and phrase structure grammar, x-bar syntax, government and binding, lexical decomposition, logical form, minimalist theory. —J. Malone

Prerequisite: For undergraduates, either V 1101 or permission of the instructor.

3 points.

Professors: David A. Bayer, Joan S. Birman (Chair)
Assistant Professors: Brian Mangum, Patricia Pacelli
 Other officers of the University offering courses in Mathematics:
Professors: Hyman Bass, Robert Friedman, Patrick N. Gallagher, Dorian Goldfeld, Richard Hamilton, Hervé M. Jacquet, Troels Jørgensen, Igor Krichever, Masatake Kuranishi, John W. Morgan, D.H. Phong, Henry Pinkham
Associate Professors: Zlil Sela, S.W. Zhang
J. F. Ritt Assistant Professors: Sean Bates, Nadia Benakli, Paul Gunnells, Shujian Ji, Minhyong Kim, Tahl Nowik, Jie Qing, Michael Smirnov, Peter Woit

GENERAL INFORMATION

A passing grade on the Basic Math Skills test is required for entry into any of the offerings of the Mathematics Department. Students who fail that test must take and pass the course QUR BC 1001 *Basic Mathematics Skills* (see Quantitative Reasoning) before they can be admitted to any mathematics courses.

Students who have special placement problems, or are unclear about their level, should go to Room 410 Mathematics to arrange to take the Placement Exam (offered during Orientation Week) or for an appointment with a faculty member or the chair.

Two help rooms, one in 404 Mathematics and a location to be posted, will be open all term (hours will be posted on the door) for students seeking individual help and counseling from the instructors and teaching assistants. No appointments are necessary. However, resources are limited and students who seek individual attention should make every effort to come during the less popular hours and to avoid the periods just before midterm and final exams.

COURSES FOR FIRST-YEAR STUDENTS

Groups and Symmetries (V 1010) and *Surfaces and Knots* (V 1011) give an introduction to aspects of contemporary mathematics, with high school mathematics as their only prerequisite. These courses are designed for students who do not intend to continue with any of the calculus offerings.

The systemic study of Mathematics begins with one of the following three alternative sequences: *Calculus IA, IIA, IIIA, IVA* (Mathematics V 1101-2, V 1201-2); *Calculus IS, IIS, IIIS* (Mathematics V 1105-6, V 1205); *Honors Mathematics I, II* (Mathematics V 1107-8), or *Honors Math III-IV* (Mathematics V 1207-8). In addition, the department has one more special offering in calculus: *Calculus for Social Sciences* (Mathematics V 1111-2).

Credit is allowed for only one of the many possible calculus sequences: The A-sequence is a standard course in differential and integral calculus. The S-sequence covers the same topics as A, but is taught at a faster pace and assumes that the student has had some calculus in high school. The use of computers is integrated into the S sequence. The Honors Mathematics sequence covers the same material as the A and S sequences, but in more depth and with a more theoretical bent. Honors Mathematics III-IV is for exceptionally well-qualified students who have strong advanced placement scores. It covers second-year Calculus (e.g., V 1201-2) and Linear Algebra (Mathematics V 2010), with an emphasis on theory.

PLACEMENT IN THE CALCULUS SEQUENCE

College Algebra and Analytical Geometry is a refresher course for students who intend to take Calculus but do not have adequate background for it.

Advanced Placement: Students who have passed the advanced placement test for Calculus AB with a grade of 5 or BC with a grade of 4 or 5 receive 4 points of credit. Students with 3 or less on an advanced placement test will receive no credit. Those who passed Calculus AB with a grade of 4 will receive 3 points of credit. They will have to take a placement test with the Mathematics department before being allowed to start with Calculus IIS. They will receive 4 points of credit only after passing Calculus IIS.

Calculus IA: Students who have not previously studied calculus should begin with Calculus IA. Especially talented students should also consider Honors Mathematics I.

Honors Mathematics I: Students with an interest in mathematics for its own sake should consider this course, which is especially designed for prospective mathematics majors. Included in the course is the material for single variable calculus, so it does not presume high school calculus. However, it is a more general introduction to mathematical methods and thought. It will not be repetitious for students who have had high school calculus.

Calculus IS: Students who have had some calculus, but not enough for a placement at a higher level, normally start with Calculus IS. This includes students who earned a score of 3 or less on either of the calculus advanced placement tests.

Calculus IIA: Students who earned a score of 4 on the AB advanced placement test may start with Calculus IIA. We recommend, however, that they either start with Calculus IS or attempt the placement exam for Calculus IIS.

Calculus IIS: Students who earned a score of 5 on the Calculus AB test or a score of 4 or 5 on the BC test should start with Calculus IIS. Those who scored 4 on the Calculus AB test must take a placement test with the Mathematics Department before being allowed to start with Calculus IIS.

Honors Mathematics III: Students who have passed the Calculus BC advanced placement test with a grade of 5, and who have strong mathematical talent and motivation, should start with Honors Mathematics III. This is the most attractive course available to well-prepared, mathematically talented first-year students, whether or not they intend to be mathematics majors. Students who contemplate taking this course should consult with the instructor. If this is not possible ahead of time, they should register and attend the first class.

REQUIREMENTS FOR THE MAJOR

The majors program in both mathematics and applied mathematics are appropriate for students who plan to continue their training in graduate school. Students who begin with Honors Mathematics III-IV will need to plan their succeeding course carefully with the help of an adviser.

FOR A MAJOR IN MATHEMATICS: 42 points, including Advanced Placement Credit as follows:

Two years of single variable and multivariate Calculus, A, S, or Honors sequence (12 pts.)		
V 2010	Linear Algebra	3 pts.
	(or Honors Mathematics III-IV)	
W 4041-2	Introduction to Modern Algebra*	6 pts.
W 4061-2	Introduction to Modern Analysis*	6 pts.
V 3951x, 3952y	Undergraduate Seminar in Mathematics	3 pts.
The remaining points may be in any approved combination of electives and/or cognate courses.		

*Note: It is strongly recommended that the sequences W 4041-2 and W 4061-2 be taken in separate years.

FOR A MAJOR IN APPLIED MATHEMATICS: 42 points, including Advanced Placement Credit as follows:

Two years of Calculus or the equivalent, in the S or A or Honors sequence (normally 12 pts.)		
V 2010	Linear Algebra	3 pts.
W 4061	Introduction to Modern Analysis	3 pts.
APM E 4901-2	Seminar in Applied Mathematics	0 pts., Junior year
APM E 4903-4	Seminar in Applied Mathematics	6 pts., Senior year
Additional electives, to be approved by the Applied Math Committee, e.g.:		
V 2500	Analysis and Optimization	3 pts.
V 3007	Complex Variables	3 pts.
V 3027	Ordinary Differential Equations	3 pts.
V 3028	Partial Differential Equations	3 pts.
V 3030	Dynamical Systems	3 pts.
W 4032	Fourier Analysis	3 pts.
STAT IEOR W 3658	Probability	3 pts.
APM E 4300	Numerical Methods	3 pts.

FOR A MAJOR IN ECONOMICS AND MATHEMATICS, SEE PAGE 139.

REQUIREMENTS FOR THE MINOR

For a minor in Mathematics or Applied Mathematics: 18 points from courses numbered 1200 or above, from the departmental offerings, as listed in the requirements for the major. The approval of the chair is required.

COURSES OF INSTRUCTION

COURSES FOR FIRST-YEAR STUDENTS

MAT W 1003x, y
College Algebra and Analytic Geometry
For students who wish to take calculus but do not have a firm enough grasp of basic mathematics. Topics include: linear functions, introduction to the exponential and logarithm functions and to algebraic functions, trigonometry, vectors in the plane. —Staff
3 points.

MAT V 1010x
Groups and Symmetry
An elementary introduction to the concept of a group. Groups of symmetries in art, architecture, and science. Groups of permutations. —Staff
Prerequisite: A firm grasp of high school algebra.
3 points.

MAT V 1011y
Surfaces and Knots
An elementary introduction to contemporary topology. Topological graph theory. Surfaces, knots, links, and braids. —Staff
Prerequisite: A firm grasp of high school algebra.
3 points.

MAT V 1101x, y
Calculus IA
Functions, limits, derivatives; introduction to integrals. —Staff
Prerequisite: A firm grasp of high school mathematics through trigonometry, or MAT W 1003 or the equivalent. The Help Room on the 4th Floor of Altschul Hall (hours posted on door) is open to students seeking individual help from the instructors and teaching assistants.
3 points.

MAT V 1102x, y
Calculus IIA
Methods of integration; applications of the integral; Taylor's Theorem; infinite series; sequences and series. —Staff
Prerequisite: Course V 1101 or the equivalent.
3 points.

MAT V 1105x
Calculus IS
Differentiation and integration, applications, transcendental functions, techniques of integration. Lectures: 3 hours; problem session: 1 hour. Students must register for the problem session.
4 points.

MAT V 1106x, y **Calculus IIS**

Improper integrals, Taylor's formula, infinite series, complex exponentials, vectors in R^2 and R^3 , vector-valued functions of one variable, scalar-valued functions of several variables, partial derivatives, gradient surfaces, optimization, and the method of Lagrange multipliers. Lecture: 3 hours; problem session: 1 hour. Students must register for the problem session. Some calculus background assumed. —Staff

Prerequisite: Course V 1105 or the equivalent.
4 points.

MAT V 1107x, 1108y **Honors Mathematics I-II**

A two-semester introduction to single variable calculus. Recommended for mathematics majors. The second semester may not be taken without the first. —Staff
3 points.

MAT V 1111x, 1112y **Calculus for Social Sciences I-II**

The level of this course is the same as that of Mathematics V 1101, V 1102, but the syllabus is modified to meet the special needs of economics students. x: Derivatives, transcendental functions, curve-sketching, optimization problems in one variable, partial derivatives, optimization; y: integrals, differential equations, infinite series, Taylor's formula, applications of the calculus to probability. —Staff

Prerequisite: Same as for V 1101, V 1102.
3 points.

MAT V 1201x, y **Calculus IIIA**

Vectors in dimensions 2 and 3; vector-valued functions and their derivatives; curves. Functions of several variables; partial derivatives; gradients; surfaces; extrema; double and triple integrals. —Staff
Prerequisite: Course V 1102 or the equivalent.
3 points.

MAT V 1202y Calculus IVA **MAT V 1205x, y Calculus IIIS**

Multiple integrals, Taylor's formula in several variables, line and surface integrals, calculus of vector fields.—Staff
Prerequisite: Course V 1106 or V 1201 or the equivalent.
3 points.

MAT V 1207x, 1208y **Honors Mathematics III, IV**

A unified treatment of multivariate calculus and linear algebra from a rigorous point of view.

Students are required to attend the recitation.
—Staff

Prerequisite: A grade of 5 in the Advanced Placement Exam (BC level) or satisfactory completion of V 1106-7, and a strong interest in learning how to construct mathematical proofs. Course V 1207 is the prerequisite for V 1208.
4 points.

GENERAL COURSES

MAT V 2010x or y **Linear Algebra**

Vector spaces, linear transformations, matrices, quadratic and hermitian forms, canonical forms, applications. —Staff
Prerequisite: Calculus II S or III A or the equivalent.
3 points.

MAT V 2500y **Analysis and Optimization**

Topics in analysis used in optimization theory. Least upper bound, topology of N , continuous functions, differential functions. Quadratic forms, Hessian, implicit functions. Convex sets, convex functions. Survey of linear, quadratic, geometric programming. Optimization under constraints; equalities and inequalities. Algorithms. Elements of the calculus of variations and optimal control. —Staff

Prerequisite: Calculus IS, IIS or the equivalent.
Corequisite: Linear algebra.
3 points.

MAT V 3007x, y **Complex Variables**

Elementary course in functions of a complex variable; fundamental properties of the complex numbers; differentiability. Cauchy-Riemann equations; Cauchy integral theorem; Taylor and Laurent series poles, and essential singularities; residue theorem and conformal mapping. —Staff
Prerequisite: V 1205.
3 points.

MAT V 3020x **Elementary Number Theory**

Congruences. Primitive roots. Quadratic residues. Contemporary applications. —Staff
Prerequisite: One year of calculus.
3 points.

MAT V 3021y **Combinatorial Number Theory**

Advanced topics in number theory. Continued fractions. Approximations by rational numbers. Transcendental numbers. Arithmetic functions. Partitions of numbers and their generating func-

tions. Stress on the combinatorial and algorithmic aspects of number theory. Contemporary applications. —Staff

Prerequisite: MAT V 3020 or MAT W 4041.

3 points.

MAT V 3027x

Ordinary Differential Equations

Equations of order one: linear equations series solutions at regular and singular points; boundary value problems; selected applications. —Staff

Prerequisite: MAT 1201 or the equivalent.

3 points.

UPPER-LEVEL COURSES

MAT V 3028y

Partial Differential Equations

Introduction to partial differential equations; first-order equations; linear second-order equations; separation of variables; solution by series expansions; boundary value problems. —Staff

Prerequisite: Course V 3027 or the equivalent.

3 points.

MAT V 3030x

Dynamical Systems

Systems, in particular linear systems of differential equations. Qualitative study of the solutions. —Staff

Prerequisite: MAT V 1202 or V 1205, and MAT W 2010.

3 points.

MAT W 3301x

Topics in Geometry

The axiomatic method in geometry, Euclidean and non-Euclidean geometries, the hyperbolic plane, transformation groups, elements of Riemannian geometry, projective geometry and duality, models of non-Euclidean geometries. —Staff

Prerequisite: Calculus IS-IIS, MAT W 2010 or the equivalent.

3 points.

MAT V 3901 x, 3902y

Supervised Readings in Mathematics

Guided reading and study in mathematics. A student who wishes to undertake individual study under this program must present a specific project to a member of the staff and secure his or her willingness to act as sponsor. Sponsorship is limited to full-time instructors on the staff list. Written reports and periodic conferences will be required. —Staff

Permission of the chair and of the staff member who agrees to act as sponsor is required.

2 or 3 points.

MAT V 3951 x, 3952y

Undergraduate Seminars in Mathematics

Subject matter is announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty member or senior teaching fellow. —Staff

Prerequisite: Open to seniors and qualified juniors with the permission of the faculty member in charge of the seminar.

3 points.

Consult 4th-floor bulletin board, Mathematics

Building, for organizational meeting date and time, during registration period.

MAT W 4032x

Fourier Analysis

Fourier series and integrals, discrete analogues, inversion and Poisson summation formulae, convolution, Heisenberg uncertainty principle. The course will stress the application of Fourier analysis to a wide range of disciplines. —Staff

Prerequisite: Three terms of calculus and linear algebra or four terms of calculus.

3 points.

MAT W 4041x, W 4042y

Introduction to Modern Algebra

The second term of this course may not be taken without the first. Groups, homomorphisms, ring ideals, fields, polynomials, and field extensions. Galois theory. —Staff

Prerequisite: MAT V 1205, V 2010.

3 points.

MAT W 4051y

Basic Topology

Metric spaces, continuity, compactness, quotient spaces. The fundamental group of a topological space. Examples from knot theory and surfaces.

Covering spaces. —Staff

Prerequisite: MAT W 4041 and W 4061 or the equivalent.

3 points.

MAT W 4061x, 4062y

Introduction to Modern Analysis

The second term of this course may not be taken without the first. Real numbers, metric spaces, elements of general topology. Continuous and differentiable functions. Implicit functions. Integration; change of variables. Function spaces. Further topics chosen by the instructor. —Staff

Prerequisite: MAT V 1205 or the equivalent, and MAT V 2010.

3 points.

MAT W 4081y

Introduction to Differentiable Manifolds

The implicit function theorem. Concept of a differentiable manifold. Tangent space and tangent bundle, vector fields, differential forms. Stokes' theorem, tensors. Introduction to Lie groups. —Staff

Prerequisite: MAT W 4051 or MAT W 4061 and MAT V 2010

3 points.

Statistics-IEOR W 3658

Probability

See details in Statistics Department listings.

Statistics-IEOR W 4606

Elementary Stochastic Processes

See details in Statistics Department listings.

APM E 4901x-4902y

Seminar: Problems in Applied Mathematics

Required for all applied mathematics majors in the junior year. Introductory seminars on problems and techniques in applied mathematics.

Typical topics of nonlinear dynamics, scientific computation, economics, and operations research. —Staff

Prerequisite or corequisite: MAT V 3007, V 3028, and V 2010, or their equivalents.

0 points.

APM E 4093x, 4094y

Seminar: Problems in Applied Mathematics

Required for all applied mathematics majors in the senior year. It consists of the same weekly lecture as Engineering Mathematics E 4901-4902 plus two hours of tutorials a week.

Examples of problem areas are nonlinear dynamics, asymptotics, approximation theory, and numerical methods. —Staff

Prerequisite or corequisite: MAT V 3007, V 3028, and V 2010, or their equivalents.

3 points.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the *Bulletin of the Graduate School of Arts and Sciences*.

This program is supervised by the Committee on Medieval and Renaissance Studies:

Art History: Professors Keith Moxey, Stephen Murray (CU), Jane Rosenthal

Classics: Professor Lydia Lenaghan, Associate Professor Carmela Franklin (CU)

English: Professors Anne Prescott, Joan Ferrante (CU), Robert Hanning (CU); Associate Professor Christopher Baswell; Assistant Professors Paula Loscocco, Peter Platt; Lecturer Timea Szell

French: Assistant Professor Peter Connor

History: Professor Caroline Bynum (CU), Assistant Professor Joel Kaye (Chair)

Italian: Professor Teodolinda Barolini (CU), Assistant Professor Antonella Ansani

Philosophy: Professor Alan Gabbey

Religion: Professors Robert Somerville (CU), Peter Awn (CU), Assistant Professor Elizabeth Castelli

Spanish and Latin American Cultures: Professors Mirella Servodidio, Marcia Welles

This program enables undergraduates to acquire a thorough knowledge of the most important aspects of Medieval or Renaissance civilizations and to gain an awareness of the interdependence of historical and cultural developments.

REQUIREMENTS FOR THE MAJOR

Major programs are established individually with a concentration in one of these disciplines: art history, history, literature, philosophy, romance philology, music, or religion. Each student, after consultation with the chair, chooses an adviser in her area of concentration who guides her in developing a sequence of courses to be taken in the field.

A minimum of 11 courses is required for the major in Medieval and Renaissance Studies:

Five courses in the area of concentration;

Two history courses for students who are not concentrating in history;

Two courses in the other disciplines mentioned above for those who are;

Two electives in areas outside the concentration, to be chosen in consultation with the adviser; and

MRS BC 3998x and MRS BC 3999y, *Directed Research*, a two-semester program of interdisciplinary research leading to the writing of the senior essay.

(In some cases, a senior seminar in one of the departments may be substituted for MRS BC 3998x or 3999y.)

Students are required to write an interdisciplinary senior essay based on two semesters of research in their field of concentration and in another discipline, carried out under the supervision of their area adviser and another from the second discipline. The choice of topic for this senior project and the appointment of a second adviser are determined in consultation with the area adviser and the chair of the program.

In addition to the language used to fulfill the general four-semester requirement for graduation, the student must have completed two semesters of a second language (or the equivalent) relevant to her area of concentration.

The following courses represent only a sample of those that can be taken to satisfy the program requirement. Other relevant courses may be taken with the permission of the chair.

No minor is offered in Medieval and Renaissance Studies.

COURSES OF INSTRUCTION

MRS BC 3998x, 3999y Directed Research for the Senior Project Two semesters of supervised interdisciplinary research in Medieval or Renaissance Studies terminating in the writing of a senior essay. The program of research is determined in consultation with the chair and under the guidance of the area adviser. It is supervised by the latter and an adviser from the second discipline involved in the project. —Staff 4 points.					ENG BC 3154x The Early Chaucer —C. Baswell and T. Szell 3 points.				H
					ENG BC 3155y Chaucer <i>The Canterbury Tales.</i> —C. Baswell 3 points.				III H
Art History ARH BC 3351x Early Christian and Early Medieval Art —J. Rosenthal 3 points.					CPE BC 3158x Medieval Literature —T. Szell 3 points.				III H
				III H	ENG BC 3163x, 3164y Shakespeare —Instructor TBA. 3 points.				III H
ARH BC 3352y Art of the Later Middle Ages —S. Murray 3 points.				III H	ENG BC 3165x The English Renaissance —A. Prescott 3 points.				III H
ARH W 3420y Italian Sculpture during the Renaissance —J. Beck 3 points.				III H	ENG BC 3167y Milton —P. Loscocco 3 points.				III H
ARH V 3933x Arts in Early Medicean Florence —J. Beck 4 points.				III H	ENG BC 3169y Renaissance Drama: Kyd to Ford —P. Platt 3 points.				III H
ARH W 4313y English Art in the 12th Century —J. Rosenthal 3 points.				III H	ENG BC 3997x Topic Seminars —Staff 4 points.				
Classics LAT V 3033y Medieval Literature —C. Franklin 3 points.				H	ENG BC 3998y 1. Medieval Images of Women —T. Szell 4 points.				
LAT W 4152x Medieval Latin: Prose —C. Franklin 3 points.				H	French FRE BC 3024y The Culture and Institutions of France —P. Connor 3 points.				III H
English ENG BC 3140y 1. Renaissance Women Writers —A. Prescott 3 points.				H	FRE BC 3031x The Middle Ages —Staff 3 points.				III H

History				Music	
<i>HIS BC 1004x</i>				<i>MUS V 3120y</i>	
Introduction to Later Middle Ages: 1050-1400				From Source to Sound: The Interpretation of Medieval Music	
—J. Kaye				—T. Payne	
3 points.	III	S		3 points.	III H
<i>HIS W 1145x</i>				<i>MUS V 3123y</i>	
Medieval People				Music of the Middle Ages and Renaissance	
—C. Bynum				—L. Perkins	
3 points.	III	S		3 points.	III H
<i>HIS W 3026y</i>				Philosophy	
Medieval Intellectual Life: 1050-1450				<i>PHI V 1202y</i>	
—J. Kaye				The History of Philosophy: II	
3 points.	III	S		—C. Mercer	
<i>HIS W 3203y</i>				3 points.	III H
Carolingian Europe				<i>PHI V 3230x</i>	
—C. Bynum				Seventeenth-Century Philosophy: Bacon to Locke	
3 points.	III	S		—A. Gabbey	
<i>HIS BC 3412x</i>				3 points.	III H
Medieval Economic Life and Thought				<i>PHI V 3574y</i>	
—J. Kaye				Philosophy and the Scientific Revolution	
4 points.	III	S		—A. Gabbey	
Italian				3 points.	III H
<i>ITA V 3468x</i>				Religion	
Italian Poetry from St. Francis of Assisi to the Dolce Stil Nuovo				<i>HIS V 3530y</i>	
—L. Rebay				History of the Papacy	
3 points.	III	H		—R. Somerville	
<i>ITA V 3635x</i>				3 points.	III S
Italian Renaissance Literature and Culture				<i>REL V 2610x</i>	
—A. Ansani				Christianity	
3 points.	III	H		—R. Somerville	
<i>ITA W 4091x-4092y</i>				3 points.	III H
Dante's Divina Commedia				<i>REL V 3418y</i>	
—T. Barolini				Orthodox Christianity	
3 points.	III	H		—A. Alexakis	
<i>ITA W 4200x</i>				3 points.	III H
Once upon a Time: The Italian Fairy Tale				<i>REL V 3803</i>	
—A. Ansani				Sufi Texts	
3 points.	III	H		—P. Awn	
<i>ITA W 4048y</i>				4 points.	III H
Women in the Italian Renaissance				<i>REL V 3803</i>	
—A. Ansani				38. Issues of Gender in Ancient and Medieval Christianity	
3 points.	III	H		—E. Castelli	
				4 points.	

Spanish

SPA BC 3123x

Spanish Literature in the Middle Ages and the
Early Renaissance

—M. Servodidio

3 points. III H

SPA BC 3127x

Don Quixote

—M. Welles

3 points. III H

SPA BC 3138x

The Spanish Inquisition

—M. Welles

3 points. III H

For other Columbia courses and graduate courses, please consult the proper catalogues and see Professor Kaye.

MUSIC

Barnard Office: 319 Milbank Hall
Columbia Department of Music: 617 Dodge

Telephone: 854-5096
854-3825

Lecturer: Gail Archer (Director)

Other officers of the University offering courses listed below:

Professors: Ian Bent, Dieter Christensen, George Edwards (Chair), Walter Frisch, Jonathan Kramer, Fred Lerdahl, Leeman L. Perkins, Elaine R. Sisman

Associate Professors: Mark DeBellis, Joseph Dubiel, Brad Garton, Cynthia Gessele, David Rakowski, Mark Tucker

Assistant Professors: Daniel Ferguson, Thomas Payne, Timothy Taylor

Adjunct Assistant Professor: Luann Dragone

Director of Music Performance: George Rothman

Associates: Sarah Adams, Anahid Ajemian, Gail Archer, Eric Bartlett, Allen Blustine, David Braynard, Marshall Coid, Kenneth Cooper, Maureen Gallagher, Christopher Gekker, Laura Goldberg, Christine Gummere, Donald Hayward, Claire Heldrich, Louis Kaplan, Mindy Kaufman, Alan Kay, Anthony Korf, Linda McKnight, Morris Newman, Niels Østbye, Muneko Otani, Susan Palma, James Preiss, William Purvis, George Rothman, Mark Shuman, Don Sickler, Michael Skelly, George Stauffer, Lisa Terry

REQUIREMENTS FOR THE MAJOR

Program of Study: to be planned with the department consultant before the end of the sophomore year. Prospective music majors should complete the prerequisites by the end of their sophomore year and are encouraged to complete them by the end of their first year. By the end of her first year as a music major she should select a faculty adviser.

Prerequisite: BC 1001 or 1002 or HUM C 1123 or F 1123, MUS V 1002 *Fundamentals of Western Music*, and MUS V 1312 *Introductory Ear-training*. Prospective music majors are advised to satisfy the prerequisites prior to their declaration as majors or before the end of their sophomore year. This requirement may be fulfilled either through successful completion of the course or satisfactory performance on examinations administered each semester by the department.

Courses: At least 38 points, including Music V 2318-V 2319 *Diatonic Harmony and Counterpoint*; V 3321-V 3322 *Chromatic Harmony and Counterpoint*; four semesters of ear-training, unless the student is exempt by exam, and any **one** of the 3000-level advanced theory electives; and any **two** of the following four history courses: V 3123 *Music of the Middle Ages and Renaissance*, V 3124 *Music of the Baroque*, V 3125 *Music of the Classical and Romantic Periods*, and V 3126 *Music of the Modern Period*. The remaining 13 points are chosen from 2000- to 4000-levels. At least one 3000- or 4000-level course must deal with non-tonal music. No more than 6 points of 2000-level courses and no more than 4 points of instrumental or vocal lessons will count toward the major.

Senior Project: Working with her adviser, a major must complete an original project in her senior year. Normally, it may be the expansion of a paper done in a 4000-level course (as long as it deals with primary sources), a composition, or a recital.

Keyboard Proficiency: Music majors will be required to take a keyboard proficiency exam, which must be arranged by making an appointment with a member of the piano faculty, immediately upon declaration of the major. Those who do not pass the exam will be required to take MUS W 1517x-W 1518y, for 1 point each term, which will count against the maximum 4 points allowed toward completion of the major.

Languages: For students who plan to do graduate work in music, the study of German, French, Italian, and/or Latin is recommended.

Note: With the permission of Gail Archer, Barnard Director, students may take courses or lessons at the Manhattan School of Music or the Juilliard School. For non-majors, there is a six-semester limit, but majors may continue for the remainder of their program.

MUSIC

Practice rooms: Piano practice rooms are available, at a nominal fee, upon application to the Music Department in 319 Milbank. Application should be made during the first week of classes. Preference in assigning hours is given to students taking piano instruction, majors, and concentrators, in order of application. The organ studio in St. Paul's Chapel is available for organ practice. Arrangements should be made with the chapel organist during the first week of classes.

REQUIREMENTS FOR THE MINOR

Courses for the minor: Four terms of Theory, four terms of Ear-training, and two terms of History.

PERFORMANCE ACTIVITIES

Participation in the following activities is open to all members of the University community. Music majors are urged to join at least one of the groups. Students who wish to receive course credit may register for the courses as listed.

Columbia University Orchestra and Chamber Ensemble. George Rothman, conductor and director of the Music Performance Program. See Music V 1591x-1592y and MUS V 1598x-1599y for the audition schedule and description of activities.

Barnard-Columbia Chorus and Chamber Singers. Gail Archer, director. See MUS V 1593x-1594y and MUS V 1595x-1596y for audition information and description of activities.

University Jazz Orchestra. Don Sickler, director. See MUS V 1585x-1586y for audition information and description of activities.

Instrumental and Vocal Instruction. With appropriate prior approval, qualified students may take music lessons, one course per term, for a maximum of six terms. Only the Music major may take lessons every term.

Collegium Musicum. Auditions are held at the beginning of each term. The aim of the Collegium Musicum is to perform neglected and unfamiliar vocal and instrumental music. Activities are supervised by the graduate student director, and the Collegium usually gives two public concerts each semester.

COURSES OF INSTRUCTION

MUS BC 1001x, BC 1002y **An Introduction to Music**

x: A survey of the development of Western music from 6th-century Gregorian Chant to Mozart, with emphasis upon important composers and forms. Extensive listening required.

y: A survey of the development of Western music from the first Viennese Classical school at the end of the 18th century to the present, with emphasis upon composers and forms. Extensive listening required. —G. Archer
No previous knowledge of music is required.
3 points. H

MUS V 1002x, y **Fundamentals of Western Music**

A student may place out of this course with a score of 5 on the Advanced Placement Examination or by an examination given by the Department at the beginning of the semester. The basic elements of music to be studied with the aim of developing musicianship will include

notation, dictation, sight-singing, transposition, aural recognition of the simpler forms, triad identification, cadence types, and voice-leading in two parts. —Instructor TBA.

Corequisite: MUS V 1312

3 points. H

MUS BC 1501x, BC 1502y **Voice Instruction**

Entrance by audition only (call department during registration for time and place of audition). One-hour private lesson weekly. —Staff
1 point.

Theory and Ear-Training Sequence

MUS V 2318x-V 2319y

Diatonic Harmony and Counterpoint, I and II

Principles of melodic construction, voice leading, harmony, and counterpoint in modal and tonal music. Composition of exercises and pieces in prescribed styles; close analysis of selected compositions.

Prerequisite: MUS V 1002 or the equivalent. *Corequisite, x and y:* An ear-training lab to be determined by a placement exam given at the beginning of the term.
3 points.

MUS V 3321x-V 3322y

Chromatic Harmony and Counterpoint, I and II

Principles of chromatic voice leading and chromatic chord construction. Composition of exercises and pieces in prescribed styles; close analysis of selected compositions. —J. Dubiel

Prerequisite: MUS V 2318-2319 and completion of any two semesters of ear-training, the most recent with a grade of B- or better. *Corequisite, x and y:* An ear-training lab.

3 points.

Please note: For the following ear-training labs, students must take a placement test at the beginning of the term and may not register without the permission of the Ear-training Coordinator.

MUS V 1312x, y

Introductory Ear-training

Introduction to basic skills in sight reading. Instruction includes reading rhythms in simple meter, solfege recitation, and sight-singing simple melodies. —Instructor TBA.

1 point.

MUS V 2314x, y

Ear-training I

Designed to improve the student's basic skills in sight-singing and rhythmic and melodic dictation with an introduction to four-part harmonic dictation. —Instructor TBA.

1 point.

MUS V 2315x, y

Ear-training II

Techniques of sight-singing and dictation of diatonic melodies in simple and compound meter, with strong emphasis on harmonic dictation. —Instructor TBA.

1 point.

MUS V 3316x, y

Ear-training III

Sight-singing techniques of modulating diatonic melodies in simple, compound, or irregular meters which involve complex rhythmic patterns. Emphasis is placed on four-part harmonic dictation of modulating phrases. —Instructor TBA.

1 point.

MUS V 3317x, y

Ear-training IV

Techniques of musicianship at the intermediate

level, stressing the importance of musical nuances in sight-singing. Emphasis is placed on chromatically inflected four-part harmonic dictation.

—Instructor TBA.

1 point.

MUS W 4318x-4319y

Ear-training V and VI

Advanced dictation, sight-singing, and musicianship, with emphasis on 20th-century music.

—L. Dragone

1 point.

MUS V 2008y

Score Preparation Technique

A study of the conventions of musical notation and the production of musical scores and parts, aimed at enabling composers to communicate their musical thoughts to performers and analysts. —Instructor TBA.

Prerequisite: Ability to read musical notation.

1 point.

MUS V 2010x

Rock 'n' Roll

A study of rock music from the perspective of issues in contemporary cultural theory, with special emphasis on political significance and diverse representations of race and gender.

—Instructor TBA.

Prerequisite: MUS BC 1001, 1002 or HUM C 1123/F 1123.

3 points.

MUS V 2016y

Jazz

The musical and cultural features of jazz, beginning in 1900. —M. Tucker

Prerequisite: MUS BC 1001, 1002, HUM C 1123 or F 1123 or the equivalent.

3 points.

III H

MUS V 2018x

The Brazilian Sound

The development of various styles of popular music in 20th-century Brazil, with special attention to traditional African and Portuguese forms from which they derive. —D. Ferguson

Prerequisite: HUM C 1123/F 1123 or the equivalent.

3 points.

III H

MUS V 2023x

Beethoven

Prerequisite: MUS BC 1001 or 1002 or HUM C 1123/F 1123 or the equivalent.

3 points. Not offered in 1997-98.

H

MUS V 2023y

Mozart

The life, works, and cultural milieu of Wolfgang Amadeus Mozart, with emphasis on selected symphonies, string quartets, piano concertos, and operas. —E. Sisman

Prerequisite: HUM C 1123/F 1123 or the equivalent.

3 points. III H

MUS V 2025x

The Opera

The development of opera from Monteverdi to the present. —Instructor TBA.

Prerequisite: MUS BC 1001, 1002, HUM C 1123/F 1123 or the equivalent.

3 points. Not offered in 1997-98. III H

MUS V 2026y

The Symphony

The symphony orchestra as a musical and social institution in the 18th through 20th centuries, and a survey of the music written for it in those periods. —E. Sisman

Prerequisite: MUS BC 1001 or 1002 or HUM C 1123/F 1123 or the equivalent.

3 points. Not offered in 1997-98. III H

MUS V 2027y

The String Quartet

Prerequisite: MUS BC 1002y or HUM C/F 1123 or the equivalent.

3 points. Not offered in 1997-98. H

MUS V 2022x

Instrumental Chamber Music from Hayden to Carter

A survey of instrumental chamber music from the mid-18th century to the present, considered both as a social activity and as a means of artistic expression with well-defined genres, forms, and aesthetic expectations. —L. Perkins

Prerequisite: BC 1001 or HUM C 1123/F 1123 or the equivalent and the ability to read music. Limited to 30 students.

3 points. III H

MUS V 2152x

Smetana, Dvůřák, Janáček

Examines the works of Bohemian and Moravian composers between 1850 and 1925, against the background of Czech life and culture, and in relation to musical Romanticism. Highlights three composers, focusing particularly on opera, choral music, orchestral, and chamber works. —I. Bent

Prerequisite: MUS BC 1001, 1002 or HUM C 1123/F 1123 or the equivalent.

3 points. III H

MUS V 2205x, y

MIDI Music Production Techniques

An introduction to the potential of digital synthesis by means of the MIDI (Musical Instrument Digital Interface). The goals, in addition to teaching proficiency in elementary and advanced MIDI techniques, will be to challenge some of the assumptions about music built into the MIDI specifications and to foster a creative approach to using MIDI machines. —B. Garton

Prerequisite: MUS BC 1001, 1002 or HUM C 1123/F 1123 or the equivalent.

3 points.

MUS V 2425x

The Music of J.S. Bach

The life and works of J.S. Bach in their musical, cultural, and social milieux. —T. Payne

Prerequisite: BC 1001 or 1002 or HUM C/F 1123 or the equivalent.

3 points. Not offered in 1997-98. III H

MUS V 2050y

Music 2000: Issues of Race and Ethnicity in NYC Musics

Strategies of identity-making among all American peoples have used different historical, geographical, and cultural trajectories. Music has played an important part in shaping, maintaining, protecting, and altering these identities. An examination of issues relating to historical attitudes and enactments of race, and ethnicity, how these have changed, particularly in the 20th century, and how music and music-making simultaneously assert and protect conceptions of identity in New York City. —T. Taylor

Prerequisite: BC 1001, 1002 or HUM C/F 1123 or the equivalent.

3 points. I H

MUS V 3120y

From Source to Sound: The Interpretation of Medieval Music

Methods, problems, and possibilities for re-creating the oldest extant body of Western music (1000-1300 C.E.). By directly confronting musical manuscripts, translated theoretical treatises, and performance contexts, students will develop their ability to think critically about the music of the past and modern attempts to describe it. —T. Payne

Prerequisite: BC 1001, 1002, HUM C/F 1123 or the equivalent, and the ability to read music.

3 points. Not offered in 1997-98. III H

MUS V 3121x**From Source to Sound: The Interpretation of Late Medieval and Early Renaissance Music**

Methods, procedures, and problems posed in attempting to re-create the written repertoires of 14th- and 15th-century music in Europe.

—L. Perkins

Prerequisite: BC 1001, 1002 or MUS HUM C 1123 or the equivalent; ability to read music. Limited to 15-20 students.

3 points. Not offered in 1997-98.

III H

MUS V 3123x**Music of the Middle Ages and Renaissance**

Western music from plainchant to Monteverdi.

—L. Perkins

Prerequisite: HUM F 1123 and MUS V 1002 or the equivalent. *Pre- or corequisite:* MUS V 2318-V 2319. 3 points.

III H

MUS V 3124y**Music of the Baroque**

Western music from Monteverdi to Bach and Handel. —C. Gessele

Prerequisite: HUM F 1123 and MUS V 1002 or the equivalent. *Pre- or corequisite:* MUS V 2318-V 2319. 3 points.

III H

MUS V 3125x**Music of the Classical and Romantic Periods**

Western music from Haydn and Mozart to the death of Wagner. —E. Sisman

Prerequisite: BC 1001 or 1002 or HUM C/F 1123 and MUS V 1002 or the equivalent. *Pre- or corequisite:* MUS V 2318-V 2319.

3 points. Not offered in 1997-98.

III H

MUS V 3126y**Music of the Modern Period**

Western music from the death of Wagner to the present. —M. Tucker

Prerequisite: BC 1001 or 1002 or HUM C/F 1123 and MUS V 1002 or the equivalent. *Pre- or corequisite:* MUS V 2318-V 2319.

3 points. Not offered in 1997-98.

III H

MUS V 3140x**Vocal Repertoire, Technique**

Voice and movement exercises for breathing, support, articulation, registration, and timbre. Exploration of wide-ranging repertoires, styles, and languages of the Western European song tradition. Attention to meaning of text and musical interpretation. Study and practice of all elements of song needed for effective vocal performance.

—J. McMahan

3 points.

III H

MUS V 3148y**Romantic Song**

Solo vocal works of Schubert, Schumann, Berlioz, Mussorgsky, Debussy, and others, viewed as transformation of poetry into song. —I. Bent

Prerequisite: BC 1001 or 1002 or HUM C/F 1123 or the equivalent, and a reading knowledge of music. 3 points.

MUS V 3150y**Music in Fin-de-Siècle Europe**

Art music at the early modernist period from 1885 to the outbreak of World War I, seen in and through the context of European culture, especially in Germany and Austria. —W. Frisch

Prerequisite: HUM C 1123/F 1123 or the equivalent. 3 points.

III H

MUS V 3170x**Studying Contemporary Popular Music**

An exploration of the applicability of recent work in cultural theory and analysis to the understanding of popular music in the 1980s and 1990s. —T. Taylor

Prerequisite: HUM C 1123/F 1123 or the equivalent and permission of the instructor.

3 points.

III H

MUS V 3239x-3240y**Introduction to Composition**

Composition in the shorter forms. Basic issues of musical structure and expression are explored in traditional and contemporary repertory.

—Instructor TBA.

Prerequisite: MUS V 1002 or the equivalent. 3 points.

MUS V 3241x-V 3242y**Advanced Composition**

Composition in more extended forms. Survey of advanced techniques of contemporary composition. —G. Edwards

Prerequisite: MUS V 3240y and permission of the instructor.

3 points.

MUS V 3244y**Tonal Composition**

Training in composing in tonal styles, including: Baroque fugues; Classical minuets, variations, and sonata-form movements; Romantic songs and preludes. —F. Lerdahl

Prerequisite: MUS V 3322 or the equivalent. 3 points.

MUSIC

MUS V 3302y

Introduction to Set Theory

A study of the basic principles of set theory through the writings of Schoenberg, Babbitt, Forte, Martino, Lewin, et al. Concepts illustrated with examples from late 19th- and early 20th-century repertoire. —Instructor TBA.

Fulfills the requirement of the 3000-level advanced theory elective. Prerequisite: MUS V 3322 and either MUS V 3126 or V 3379 or permission of the instructor.

3 points. Not offered in 1997-98.

MUS V 3305x

Theories of Heinrich Schenker

Fulfills the requirement of the 3000-level advanced theory elective. Prerequisite: MUS V 3322 or the equivalent.

3 points.

H

Asian Humanities-Music AHM V 3320y

Introduction to the Musics of East Asia and Southeast Asia

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —D. Ferguson

3 points.

II H

Asian Humanities-Music AHM V 3321x

Introduction to the Musics of India and West Asia

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —Instructor TBA.

3 points.

II H

MUS V 3330y

Advanced Counterpoint

The study of baroque counterpoint in the style of J.S. Bach; general aspects of voice-leading; dances, inventions, canons; expositions of fugues.

—F. Lerdahl

Fulfills the requirements of the 3000-level advanced theory elective. Prerequisite: MUS V 2310, 2311 and 2312.

3 points. Not offered in 1997-98.

MUS W 3345y

Rhythm and Meter

Fulfills the requirements of the 3000-level advanced theory elective. Prerequisite: MUS V 3321.

3 points. Not offered in 1997-98.

MUS W 3360x

Pre-tonal and Tonal Analysis

Detailed in-depth analysis of selected pre-tonal and tonal compositions. —Instructor TBA.

Fulfills the requirements of the 3000-level advanced

theory elective. Prerequisite: MUS V 3321.

3 points.

MUS W 3379x

Twentieth-Century Music

Fulfills the requirements of the 3000-level advanced theory elective. Prerequisite: MUS V 3321.

3 points.

III H

MUS W 3380y

Music Since 1945

Detailed analysis of selected issues. Composers include Messiaen, Stravinsky, Boulez, Stockhausen, Babbitt, Carter, Penderecki, Cage, Reich, Glass, Rzewski, Rochberg, and others. —T. Murail

Fulfills the requirements of the 3000-level advanced theory elective. Prerequisite: MUS V 3379.

3 points.

III H

MUS W 3470y

Issues in Rock Music and Rock Culture

Prerequisite: MUS V 2010 or instructor's permission.

3 points. Not offered in 1997-98.

III H

MUS W 4010y

Explaining Music

An inquiry into the nature of music theory, its relation to musical analysis, and its potential for explaining music. Readings drawn from contemporary music theory and related disciplines (philosophy of science, linguistics).

—'98: M. DeBellis

Prerequisite: MUS V 2319

3 points.

H

MUS W 3990

Senior Project: Research for Music

Independent study for research and writing.

—Staff

3 points.

MUS W 3991

Senior Project: Music Repertory

Independent study for preparing and performing repertory works to be presented in concert.

3 points.

MUS W 4104x

The Musical Universe of Palestrina, Lasso, and Victoria

Prerequisite: MUS BC 1001 or instructor's permission.

3 points.

III H

MUS W 4410x

Music and Gender in Cross-Cultural Perspective

Evaluates the role played by musical performance in the expression of gender identity. Students will

explore several case studies that represent urban, rural, classical, and popular music cultures from different geographical areas.

Prerequisite: MUS BC 1001, 1002, MUS HUM, and permission of instructor.

3 points.

I H

PERFORMANCE ACTIVITIES AND INSTRUMENTAL INSTRUCTION

MUS V 1585x-V 1586y

University Jazz Orchestra

The University Jazz Orchestra performs classics and contemporary big band repertoire at a concert at the end of each term. —D. Sickler

Audition required. Those auditioning should apply to Columbia College Office of Student Activities (Telephone: 854-3611). May be taken for Pass/Fail credit only.

1 point.

MUS V 1591x-V 1592y

University Orchestra and Chamber Music

An audition to be held during registration period, by appointment, at 617 Dodge Hall (x43825). Students should bring two short works, or movements of longer works, of different stylistic periods; they will also be asked to read brief orchestral or chamber music excerpts at sight. The orchestra performs throughout the academic year in works spanning all periods of music, including contemporary compositions. Distinguished guest soloists sometimes perform with the orchestra, and qualified student soloists may also have the opportunity either to perform or read concertos with the orchestra. Staff positions: a few persons interested in managerial work may gain experience as orchestra librarian and personnel manager.

Students who register for orchestra alone will receive four points for four semesters and will be charged at the rate of one point each semester. Students who register for orchestra and chamber music will receive four points for two semesters, and will be charged at the rate of four points each semester. —G. Rothman and Staff

1 point. Additional rehearsals in the three weeks preceding each public concert.

MUS V 1593x-V 1594y

Barnard-Columbia Chorus

Auditions by appointment made at the first class meeting. Students who register for chorus will receive a maximum of four points for four or more semesters, and will be charged at the rate of one point each semester. Open to all men and women in the University community. Several public concerts are given each season both on and off campus,

often with other performing organizations. Sight-singing sessions offered. Repertory includes works from all periods of music literature. —G. Archer

Audition required. Pass/Fail credit only.

1 point.

MUS V 1595x-V 1596y

Barnard-Columbia Chamber Singers

A small number of students in the Barnard-Columbia Chorus are chosen to rehearse and perform difficult music in several languages.

—G. Archer

Audition required. Pass/Fail credit only.

1 point.

MUS V 1598x-1599y

Chamber Ensemble and Chamber Orchestra

Students registering for chamber music receive ensemble training with the performance associates listed for MUS W 1525-W 1526. Student chamber ensembles perform a recital at the conclusion of each semester and are given other opportunities to perform throughout the academic year.

—George Rothman and Staff

May be taken for Pass/Fail credit only.

1 point.

Please note: In the instrumental lessons listed below offered on a weekly, individual basis, a course of half-hour lessons earns 1 point of credit, and a course of one-hour lessons earns 2 points of credit.

MUS W 1500x-W 1501y

Early Instruments

Audition required. Those auditioning should apply to the Department of Music, 703 Dodge Hall (Telephone: x43825).

1 or 2 points.

Sec. 1: Keyboards —K. Cooper

Sec. 2: Strings —L. Terry

Sec. 3: Wind Instruments —M. Newman

MUS W 1509x-W 1510y

Organ Instruction

—G. Stauffer

Permission of the instructor required.

1 or 2 points.

MUS W 1513x-W 1514y

Introduction to Piano

Sec. 1: —N. Østbye; Sec. 2: —M. Skelly

1 point.

MUS W 1515x-W 1516y

Elementary Piano Instruction

Prerequisite: W 1513-1514 or the equivalent and

MUSIC

permission of the instructor.

Sec. 1: —N. Østbye; Sec. 2: —M. Skelly
1 or 2 points.

MUS W 1517x-W 1518y

Keyboard Harmony and Musicianship

One half-hour private lesson weekly. Lessons emphasize the progressive development of a harmonic vocabulary representative of the techniques of the central tradition of 18th- and 19th-century music.

Sec. 1: —N. Østbye; Sec. 2: —M. Skelly
1 point.

MUS W 2515x-W 2516y

Intermediate Piano Instruction

Prerequisite: W 1515-1516 or the equivalent and permission of the instructor.

Sec. 1: —N. Østbye; Sec. 2: —M. Skelly
1 or 2 points.

MUS W 3515x-W 3516y

Advanced Piano Instruction

Prerequisite: W 2515-2516 or the equivalent and permission of the instructor.

Sec. 1: —N. Østbye; Sec. 2: —M. Skelly
2 points.

MUS W 1525x-W 1526y

Instrumental Instruction

See *Columbia College Catalogue* for section information. Students participating in the orchestra are given precedence when applying for private instrumental instruction.

Prerequisite: Audition (see under University Orchestra).
1 or 2 points.

FLUTE: M. Kaufman, S. Palma; OBOE: M. Hill, M. Dine; CLARINET: A. Blustine, A. Kay; BASSOON: M. Newman; FRENCH HORN: W. Purvis; TRUMPET: C. Gekker; TROMBONE: R. Borrer; TUBA: D. Braynard; DRUMS AND PERCUSSION: C. Heldrich, A. Korf; VIOLIN: A. Ajemian, M. Coid, L. Kaplan, S. Kim, L. Goldberg; VIOLA: S. Adams, M. Gallagher; VIOLONCELLO: E. Bartlett, C. Gummere, M. Shuman; STRING BASS: L. McKnight, TBA.

This program is supervised by the Committee on Pan-African Studies:

Director of Pan-African Studies and Assistant Professor of Sociology: Ennis B. Edmonds

Assistant Professor of Anthropology: Lesley A. Sharp

Assistant Professor of Economics: Alan Dye

Assistant Professor of English: Jennie Kassaroff

Assistant Professor of History: Lynette Jackson

Assistant Professor of Political Science: Linda Beck

Assistant Professor of Religion: Judith Weisenfeld

Assistant Professor of Spanish and Latin American Cultures: Licia Fiol-Matta

Dean of the College: Dorothy S. Denburg

Associate Dean for Student Affairs: Vivian Taylor

The Pan-African Studies major provides students with a multi-disciplinary, comparative perspective in their approach to the study of the history, politics, and cultures, literatures, and experiences of peoples of African origin in Africa and the African diaspora. The major differs from African Studies, Caribbean Studies, and African-American Studies in that its foundation is comparative and it encompasses the African influences in the experiences of peoples of African descent throughout the world. Each student will choose a concentration within the major that will allow her to explore a particular geographical region or methodological approach to the field and to work toward the research and writing of a senior thesis.

REQUIREMENTS FOR THE MAJOR

- I. Introductory Courses:** Two-semester sequence (preferably to be taken before the junior year):
PAS BC 3004x *Introduction to Pan-African Studies: African Civilizations*
PAS BC 3006y *Introduction to Pan-African Studies: The African Diaspora*
- II. One semester Junior Colloquium** in Pan-African Studies:
PAS BC 3100x *Medicine and Power in African History* OR
PAS BC 3102y *Family and Gender in the African Diaspora*
- III. Language:** Each student must demonstrate proficiency in any of the languages of Africa or the Diaspora (in addition to English) by completing at least the fourth semester of that language, or its equivalent. This requirement is not in addition to the general foreign language requirement. Languages may include Swahili, Hausa, Arabic, French, Spanish, Dutch, and Portuguese.
- IV. Track:** Each student will select one of the following tracks and, in consultation with the adviser, take four courses (from among those courses designated by the Committee on Pan-African Studies).
A. *The Regional Track* (Africa, the Caribbean, Latin America, or North America)
B. *The Divisional Track* (humanities or social sciences)
- V. Electives:** In consultation with the adviser, the student will take two electives (from among those courses designated by the Committee on Pan-African Studies).
- VI. Senior Thesis:** PAS BC 3998x and PAS BC 3999y *Directed Research*, a two-semester program of interdisciplinary research leading to the writing of the senior essay. In some cases, a senior seminar in one of the departments may be substituted for one semester of Directed Research. (*A Guide to the Senior Thesis* is available from the director.)

The total number of courses for the major is 11, exclusive of the foreign language.

PAN-AFRICAN STUDIES

NO MINOR IS OFFERED IN PAN-AFRICAN STUDIES.
COURSES OF INSTRUCTION

PAS BC 3004x
Introduction to Pan-African Studies: African Civilizations
Interdisciplinary and thematic approach to major African civilizations. Focus on Oyo Yoruba, Mande, Egyptian, and Zulu civilizations from their origins to their place in the contemporary world. Topics include: oral traditional literature; religion and cultural life; political and economic history; the diaspora and post-coloniality.
—L. Jackson
3 points. III H

PAS BC 3006y
Introduction to Pan-African Studies: The African Diaspora
A multi-disciplinary exploration of the historical contours of the lives of Africans in the Americas, and the contemporary social, political, economic, and cultural issues they have faced, beginning with the contacts between Africans and the Portuguese in the 15th century. —E. Edmonds
3 points. III H

PAS BC 3100x
Medicine and Power in African History
Examines medical discourse and practice in Africa, emphasizing relationships between power and medical knowledge. Topics include: African therapeutic systems, African conjurers in the New World, medicine and imperialism, representing “the sick African,” the professionalization of traditional healers, and the politics of AIDS in contemporary Africa. —L. Jackson
Prerequisite: Permission of the instructor. Limited to 15 students.
4 points. II S

PAS BC 3101y
Black Nationalisms in Africa and the African Diaspora
An intellectual and cultural history of nationalism in Africa and the African diaspora focusing on the 19th and 20th centuries. Special emphasis on the places of Africa in the diaspora imagination, and the ways in which gender, race, and class identities shape nationalism. —L. Jackson
Prerequisite: Permission of the instructor. Limited to 15 students.
4 points. I S

PAS BC 3102y
Family and Gender in the African Diaspora
An exploration of the issues that have emerged and have remained at the center of academic and social concerns about family and gender in the African Diaspora. Careful attention will be paid to family structure, male/female roles, women’s involvement in politics and the economy, and the state of black males in the late 20th century. —E. Edmonds
4 points. II S

PAS BC 3010x
Political Economy in the Caribbean
An examination of the political economy of development and underdevelopment in the Caribbean, focusing on 1960 to the present. The forces creating underdevelopment, the approaches to development (historical and contemporary), and the local and international factors influencing or inhibiting development will be considered. —E. Edmonds
3 points. II H

The following is only a sample selection of courses that may be applied to the major. Students should consult the departmental and program listings for course descriptions, prerequisites, and other relevant courses.

AFAS C 1001x	Intro to African-American Studies
AFAS C 3200x	Black Political Thought
AFAS C 3300y	African Civilizations in the Americas
AFAS C 3930y	Race, Biology, and Culture
AFAS C 3930y	Black Revolt in the Modern World
AFAS C 3936y	Colloquium: Black Intellectuals
AFAS C 3997x-3998y	Independent Study
ANT V 3001	Sources of African Tradition
ANT V 3003	African Cultures in the New World
ANT V 3005y	Societies and Cultures of Africa
ANT V 3009	Peoples and Cultures of North Africa and the Middle East
ANT V 3017	Caribbean Societies in the Global System

ANT V 3024	Africa and Modernity: A Changing Continent
ANT V 3280y	Black Nationalism and the Race/Culture Dialogue in the U.S.
ANT V 3808	Ethnicity and Race
ANT V 3945	Colloquium: Colonialism and the Family in Africa
ARH C 1020y	African Civilization
ARH W 4076x	Arts of Sub-Saharan Africa
ECO BC 2014	Topics in Economic History: Coerced and Free Transatlantic Migration — the Integration of Four Continents
ENG BC 3140y	Explorations of Black Literature, 1760-1890
ENG BC 3140, Sec. 1	Writers of the Anglophone Caribbean
ENG W 3237x	"Race" and Racism: Literary Representations of an American Crisis
ENG W 3290x	Literature of the Americas
ENG W 3400x-3401y	African American Literature I & II
ENG W 3661y	Black Women in American Culture: Black Women in the Americas
ENG W 3716y	Modern American Literature: Experiments in Black Fiction
ENG W 3740x	Studies in African-American Literature: James Baldwin
ENG W 4261	African-American Texts: The Harlem Renaissance and Beyond
ENG W 4604	Literature in the U.S., 1900-1939
EWS BC 3144	Minority Women Writers in the United States
ENG BC 3998	Representations of Black Womanhood
FRE BC 3047	Topics in French and Francophone Cultures
HIS BC 1020y	African Civilizations
HIS BC 1030	History of Southern Africa
HIS BC 1051	Survey of American Civilization to the Civil War
HIS BC 3056	The American Civil Rights Movement
HIS BC 3090	Women and Gender in Africa, 1500 to Present
HIS BC 3489	The Fourteenth Amendment and Its Uses
HIS W 3003-3004	African-American History Since 1865
HIS W 3122y	America in the Era of Civil War and Reconstruction
HIS W 3434y	Memory, Orality and African History
HIS W 3660	Harlem: A Social and Cultural History, 1890-1965
HIS W 3643	Slavery and Slave Resistance in the Americas
HIS W 3644y	Ethnicity and Race
HIS W 3740y	Telling About the South
HIS W 3881	Color, Class and Gender in African-American History
HIS W 3931y	Slavery and Race Relations in the Americas
HIS W 4472y	North Africa and Sahara to 1500
HIS W 4928x	West African History
MUS W 3470	Issues in Rock Music and Rock Culture
MUS V 2016	Jazz
MUS V 2050y	Music 2000: Issues of Race and Ethnicity NYC Musics
POS BC 3119y	Islam and Politics
POS H 3210	France and Africa: Post-Colonial Relations
POS W 3245	Race and Ethnicity in American Politics
POS W 3320	Contemporary Black Politics
POS W 3440y	Race and War
POS W 3702y	American Politics: Race and Ethnicity
POS W 4226x	American Politics and Social Welfare Policy
POS W 4496y	Comparative African Politics
PSY BC 2370	Psychological Analysis of Racism
PSY BC 3379	Psychology of Stereotyping and Prejudice
REL V 3755	African-American Religion
REL V 3780	Religion and Social Constructions of Race
REL V 3803x	African-Based Religions of the Caribbean
REL V 3804	Black Women's Religious Experiences

REL V 3804y	Racial Politics of American Religions
SOC BC 3088	Gender, Class, and Race
SOC BC 3206	Race, Culture, and Identity
SOC BC 3904y	Music and Society: Calypso and Reggae
SOC V 3208y	The Sociology of Race
SOC V 3265	Minorities and Ethnic Groups in American Life
SOC V 3900	Blacks and Jews: A Sociological Perspective
SOC W 3945x	Seminar on Inequality and Public Policy
SPA BC 3143	Literature of the Spanish Caribbean
WMS BC 3121	Black Women in America
WMS BC 3507	Unheard Voices: African Women's Literature
WMS V 3118y	The Image of African-American Women in Film from 1900 to the Present
WMS W 3110x	Constructing Identities: Gender, Race, and Sexuality

Professors: Alan Gabbey (Chair), Sue Howard Larson

Assistant Professors: Taylor Carman, Noa Latham, Robert Myers (Acting Chair, 1997-98)

Adjunct Associate Professor: Jeffrey Blustein

Lecturer: John Lad

Other officers of the University offering courses in Philosophy:

Professors: Bernard Berofsky, Haim Gaifman, Lydia Goehr, Richard F. Kuhns, Jr., Charles Larmore, Isaac Levi, Philip Pettit, Thomas Pogge, David Sidersky, Crispin Wright

Associate Professors: David Albert, Akeel Bilgrami

Assistant Professors: John Collins, Bonnie Kent, Wolfgang Mann, Christia Mercer, Achille Varzi

Adjunct Assistant Professors: Michael Kelly, Cheryl Mendelsohn

The department offers a wide range of courses designed to acquaint the student with traditional and contemporary work in ethics, metaphysics, theory of meaning, aesthetics, theory of knowledge, philosophy of science, logic, and the history of philosophy. The courses are designed to facilitate student participation and each class is conceived as a workshop. The student is expected to develop a competence in techniques of conceptual analysis, argument, and the interpretation of texts.

Although it is not required for the major or a combined major, or for the minor, students who have not had previous training in philosophy are advised to take either PHI BC 1001, *Introduction to Philosophy: Problems and Concepts*, or PHI BC 1002, *Introduction to Philosophy: Styles and Systems*. Credit for both courses will not be given for the major or a combined major, or for the minor.

REQUIREMENTS FOR THE MAJOR

I. A major in Philosophy consists of at least 10 courses, as follows:

1. One course on ancient or early medieval philosophy:

PHI V 1101 *The History of Philosophy I: Pre-Socratics through Augustine*

PHI V 3121 *Plato*

PHI V 3131 *Aristotle*

2. One course on early modern philosophy:

PHI V 3230 *Seventeenth-Century Philosophy: Bacon to Locke*

PHI V 3250 *Eighteenth-Century Philosophy: Locke to Kant*

3. One course in logic: PHI V 3411 *Introduction to Symbolic Logic*

4. One course in moral philosophy: PHI V 3701 *Moral Philosophy*

5. One of the following courses:

PHI BC 3483 *Theory of Meaning*

PHI BC 3501 *Theory of Knowledge*

PHI V 3601 *Metaphysics*

6. One semester of Majors' Seminar: BC 3288x

7. Senior Research Seminar: BC 3290y

8-10. Three electives.

The sequence of courses for the major is to be determined in consultation with the major adviser. The Majors' Seminar (PHI BC 3288x) may be taken in either the senior or the junior year. The topic for the seminar is set each semester on the basis of consultation

PHILOSOPHY

between the instructor and the students. No topic of the Majors' Seminar may be taken more than once, but with departmental permission the Majors' Seminar can also be taken (on a different topic) as an elective for the major.

Philosophy combines well with several other subjects in the humanities and the sciences. Students considering a combined major including philosophy, or a double major, should consult the department chair as early in their planning as possible.

Senior Essay

All students majoring in Philosophy are required to submit a substantial essay on a topic approved by the department. The essay is to be researched and written as the work for the Senior Research Seminar (BC 3290y).

REQUIREMENTS FOR THE MINOR

Five courses constitute a minor in philosophy. Courses are to be selected on the basis of consultation with the adviser.

Limited Enrollment Courses

First-day attendance required. Instructor will determine and post class list. Prerequisites: one philosophy course or permission of the instructor, unless otherwise specified.

COURSES OF INSTRUCTION

<p>PHI BC 1001x, y Introduction to Philosophy: Problems and Concepts Interpretation and analysis of major topics in ethics, metaphysics, and theory of knowledge. Readings from historical and contemporary sources, primarily within the Western tradition. —Staff <i>Limited enrollment. No prerequisites.</i> 3 points.</p>	III H	<p>PHI BC 3121x Plato An introduction to the leading concepts and doctrines of Plato's philosophy through analysis of selected texts in logic, physics, psychology, and metaphysics. —W. Mann 3 points.</p>	H
<p>PHI BC 1002x, y Introduction to Philosophy: Styles and Systems Examination of different conceptions of philosophy, its questions, and its methods, as they arise in different historical and cultural contexts, both Western and non-Western. —J. Lad <i>Limited enrollment. No prerequisites.</i> 3 points.</p>	I H	<p>PHI BC 3131x Aristotle An introduction to the leading concepts and doctrines of Aristotle's philosophy through analysis of selected texts in logic, physics, psychology, and metaphysics. —W. Mann <i>Prerequisite: One philosophy course or permission of the instructor.</i> 3 points.</p>	III H
<p>PHI V 1101x The History of Philosophy: I Exposition and analysis of the positions of the major philosophers from the pre-Socratics through Augustine. —Instructor TBA. 3 points.</p>	III H	<p>PHI BC 3147y Philosophical Issues of Feminist Theory Philosophical study of some recent feminist texts together with the appropriate philosophical texts. —S. Larson 3 points.</p>	I H
<p>PHI V 1201y The History of Philosophy: II Exposition and analysis of the positions of the major philosophers from Aquinas through Kant. —Instructor TBA. 3 points.</p>	III H	<p>PHI V 3230x 17th-Century Philosophy: Bacon to Locke Selected doctrines and issues attending "the birth of Modern Philosophy." Skepticism; empiricism and rationalism; faith and reason; perception; metaphysics; methodology; spirit and matter; moral and civic philosophy; philosophy and science. Principal thinkers are normally selected from Bacon,</p>	

<p>Hobbes, Gassendi, Descartes, Pascal, Spinoza, Leibniz, Malebranche, the Cambridge Platonists, Anne Conway, and Locke. —A. Gabbey <i>Prerequisite: One philosophy course or permission of the instructor.</i> 3 points. III H</p>	<p>ness, intentionality, perception, cognition, and embodiment. —T. Carman <i>Prerequisite: One prior philosophy course.</i> 3 points. III H</p>
<p>PHI V 3232x Renaissance Philosophy <i>Prerequisite: One philosophy course or permission of the instructor.</i> 3 points. Not offered in 1997-99. III H</p>	<p>PHI V 3340y Heidegger A study of <i>Being and Time</i> in historical context, with emphasis on Heidegger's conception of human existence as "being-in-the-world," the critique of traditional ontology, authenticity and inauthenticity, and the temporal basis of our understanding of being. —T. Carman <i>Prerequisite: One prior philosophy course.</i> 3 points. III H</p>
<p>PHI V 3250y 18th-Century Philosophy: Locke to Kant Selected doctrines and issues in "an Age of Enlightenment" (Kant); ideas and perception; reason and the passions; knowledge and belief; spirit and matter; deism and atheism; philosophy and science; rationalism and empiricism. Principal thinkers are normally selected from Locke, Leibniz, Newton, Berkeley, Hume, Reid, the philosophers of the French and German Enlightenments, and Kant. —A. Gabbey <i>Prerequisite: One philosophy course or permission of the instructor.</i> 3 points. III H</p>	<p>PHI V 3352y Recent European Philosophy Themes from the writings of Kant, Nietzsche, and Heidegger, and their treatment by later thinkers such as Gadamer, Derrida, Foucault, and Habermas. Special attention will be given throughout to Foucault and his critics. —M. Kelly 3 points. III H</p>
<p>PHI V 3251x Kant's Critique of Pure Reason A study of the <i>Critique of Pure Reason</i> in historical context, with emphasis on Kant's "Copernican Revolution" in philosophy and his notion of transcendental inquiry as a response to traditional problems in metaphysics and epistemology. —T. Carman <i>Prerequisite: One prior philosophy course.</i> 3 points. III H</p>	<p>PHI BC 3364y Wittgenstein Wittgenstein's views in relation to Frege and Russell. Discussion of the central problems in his books, e.g., logical form, truth, rule-following, privacy, certainty, and psychological concepts. —S. Larson 3 points. III H</p>
<p>PHI V 3270x Nineteenth-Century Philosophy: Hegel to Nietzsche A survey of German idealism and its critics. Topics include the nature of self-consciousness, the idea of progress in history, and the character of modern ethical and religious life. Principal thinkers are normally selected from Fichte, Hegel, Schopenhauer, Marx, Kierkegaard, and Nietzsche. —T. Carman 3 points. III H</p>	<p>PHI V 3411x, y Introduction to Symbolic Logic Sentential and first-order logic; the significance of a formal system and its use for analysis of meaning and language. Technical exercises are combined with analysis and parsing of English texts. There will be a weekly required discussion section in addition to lectures. —x: H. Gaifman; y: A. Varzi 4 points. H</p>
<p>PHI V 3330y Phenomenology and the Mind An introduction to the works of Husserl, Sartre, and Merleau-Ponty, with additional sources in contemporary philosophy of mind. Special topics include consciousness and self-conscious-</p>	<p>PHI BC 3483y Theory of Meaning Considerations of questions about the nature of language and truth, with attention to the role of the concept of truth in constructing theories of meaning for natural languages. Readings from Frege, Austin, Davidson, and others. —S. Larson <i>Prerequisite: One philosophy course or permission of the instructor.</i> 3 points. III H</p>

PHILOSOPHY

PHI BC 3501y
Theory of Knowledge

Contemporary issues in the theory of knowledge and their historical sources.
Prerequisite: One philosophy course or permission of the instructor.
3 points. III H

PHI V 3574y
Philosophy and the Scientific Revolution
Selected episodes in the Scientific Revolution (16th–18th centuries) in relation to contemporaneous and later developments in philosophy, especially philosophy of science. —A. Gabbey
Prerequisite: One philosophy course or permission of the instructor.
3 points. III H

PHI V 3601y
Metaphysics
A systematic treatment of some major metaphysical topics, e.g., necessity, causality, particulars and universals, personal identity. Readings from classical and contemporary authors. —B. Berofsky
3 points. III H

PHI BC 3651x
Philosophy of Mind
Examination of the place of mind in the physical world. The relation of mental states to behavior and neurophysiology; problems concerning consciousness and subjectivity. —S. Larson
3 points. III H

PHI V 3690y
Action, Emotion and Rationality
An examination of the roles of value and rationality in emotion and action, with emphasis on the topics of free will, self-deception, wishful thinking, weakness of will, and such emotions as anger, pride, shame, and guilt. Readings will be drawn from Plato, Aristotle, Hume, Freud, Sartre, Davidson, and other contemporary authors. —N. Latham
Prerequisite: One philosophy course or permission of the instructor.
3 points. III H

PHI V 3701x, y
Moral Philosophy
Introduction to the central problems of moral philosophy: alternative moral ideals and their philosophical formulations; the status and justification of moral judgments; reasons for action; individual rights and social justice.
—x: R. Myers, y: D. Sidorsky
Prerequisite: One philosophy course or permission of

the instructor.
3 points. III H

PHI V 3716y
Topics in Moral Philosophy
Some historical sources and recent criticisms of consequentialism, the idea that morality is at bottom simply a matter of promoting the overall good. Discussion will focus on worries concerning individual rights and freedoms, and more generally on the problem of combining a concern for the overall good with respect for people as individuals. Readings will normally be selected from Hume, Mill, Sidgwick, Hare, Rawls, Williams, Nagel, and Scheffler. —R. Myers
Prerequisite: Moral Philosophy V 3701 or permission of the instructor.
3 points. III H

PHI V 3720y
Ethics and Medicine
Philosophical examination of moral issues in medical theory and practice. Analysis of the ethics of the doctor-patient relationship, e.g., informed consent, truth-telling, paternalism; topics in bioethics, e.g., abortion, euthanasia, experimentation on humans; justice and access to health care; human genetics. —J. Blustein
Limited enrollment by permission of the instructor. First-day attendance required.
3 points. III H

PHI V 3758y
Philosophy of Education
Drawing on classical and contemporary sources, discussion will focus on the conditions necessary to produce free and responsible citizens of a just and democratic society. Readings from Plato, Rousseau, Dewey, and others. —R. Myers
3 points. III H

PHI V 3881x
The Idea of God
Arguments for and against belief in a separate God, the relevance of rationality to theistic belief, the attributes of God, religious experience, the relation of religion to morality. Focus is primarily on the Judeo-Christian tradition. Readings drawn from classical and contemporary sources. —N. Latham
Prerequisite: One philosophy course or permission of the instructor.
3 points. III H

PHI BC 3288x
Majors' Seminar
An intensive study of a selected author, issue, text, or series of texts. —Staff
4 points. III H

PHI BC 3290y Senior Research Seminar Discussion and conferences on the preparation of the Senior Essay, a substantial project on a topic agreed upon by each individual student and the department and prepared under the direction of the instructor. —Staff 4 points. Times TBA by agreement between the instructor and the students. III H	PHI V 3551y Philosophy of Science —D. Albert 3 points. III H
PPS BC 3291x Philosophy/Psychology Seminars: Issues in Human and Animal Cognition What is the relation between language and thinking? How can we discern cognitive behavior in young children and non-verbal animals? Readings in cognitive ethology and in the philosophy of mind and language. —S. Larson, C. Ristau <i>Prerequisite: One philosophy or psychology course or permission of the instructors.</i> 4 points. III H	PHI V 3576y Physics and Philosophy —D. Albert 3 points. III H
PHI BC 3398x, y Independent Study Open to students who wish to pursue a project on an individual basis. The study consists in a combination of readings and papers over one semester under the direction of an appropriate instructor. The project and enrollment for the course are both subject to departmental approval. 1-3 points. H	PHI V 3640y The Meaning of Life —C. Larmore 3 points. III H
	PHI V 3715x Topics in Moral Philosophy: Justice —T. Pogge 3 points. III H
	PHI V 3786y Free Will and Responsibility —B. Berofsky 3 points. III H
	PHI V 3801y Aesthetics —M. Kelly 3 points. III H
	PHI V 3801x Aesthetics on Trial —L. Goehr 3 points. III H
OTHER OFFERINGS For full details of the following available courses, see the Columbia College Bulletin:	COURSES OFFERED AT REID HALL IN PARIS The following course is offered at Reid Hall in Paris. For additional information about the programs available, consult the Reid Hall Programs Bulletin available in 303 Lewisohn Hall.
PHI W 3278y Nietzsche —M. Kelly 3 points. III H	Philosophy H 3550x, y Aspects of Contemporary French Thought An overview of recent developments in French philosophy through analysis of contemporary positions; a critical examination of the main trends of present-day thought, including some necessary background material (Descartes, Spinoza, Nietzsche). Readings include texts by Freud, Sartre, Foucault, Deleuze, Derrida, Barthes, de Beauvoir, Conche, Debord, and Lacan. —L. Laveggi <i>Recommended preparation: An introductory course in philosophy.</i> 3 points. III H
PHI V 3290x Sartre —C. Larmore 3 points. III H	
PHI V 3301y 20th-Century Philosophy —D. Sidorsky 3 points. III H	
PHI V 3480y Philosophy of Language —A. Varzi 3 points. III H	

Senior Associates: Sharon Everson (Chair)

Lecturer: Gail Reiken Tuzman

Associates: Kristina Dhondt, Laura Masone, Sheila Stepp

DEGREE REQUIREMENT

Students admitted as first-year students must complete two semesters of Physical Education at Barnard. One semester must be passed in the first year and the requirement must be completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of Physical Education at Barnard. Transfers are expected to complete their requirement by the end of the junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. Physical Education courses are graded pass/fail based on attendance and participation.

Health Status: Students with permanent or temporary disabilities will be individually advised and placed in a suitable activity, based upon the recommendations of the Director of Health Services.

Curriculum: The curriculum is organized and administered by the faculty of the Department of Physical Education. Instruction is offered in the areas of sports, aquatics, fitness, aerobics, and other specialized courses. Courses are designed to promote the development and enjoyment of lifetime motor skills which will afford opportunities to realize one's potential and to provide vigorous exercise to release tensions often generated by strong academic commitments and intense urban life.

Intramurals: The Physical Education Department offers an extensive intramural program which features basketball, floor hockey, indoor soccer, tennis, and volleyball. The program offers different levels of competitive play and emphasizes participation in a friendly atmosphere; activities are open to all members of the college community. For more information, contact the Director of Intramurals, 206 Barnard Hall, or call 854-6940.

Recreation: Recreational use of the gymnasium, swimming pool, track, and weight room is available at specified times. All students, faculty, and staff are encouraged to use the facilities. In addition, the Physical Education Department sponsors special recreational activities, such as fun runs and sports tournaments, throughout the semester.

Intercollegiate Athletics: The Barnard/Columbia Athletic Consortium provides the opportunity for eligible undergraduate women to compete together as members of University-wide athletic teams. Thirteen varsity sports are currently sponsored: Archery, Basketball, Crew, Cross Country, Fencing, Field Hockey, Lacrosse, Soccer, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field, and Volleyball. Governed by NCAA and Ivy League rules, all teams are Division I. Competition is scheduled with teams from the Ivy League, the metropolitan area, and the eastern region. In addition, students are eligible to qualify for state, regional, and national championships. Physical Education credit may be earned through satisfactory participation on a varsity team.

For more information, contact Merry Ormsby, Associate Director of Athletics, Columbia-Dodge Fitness Center, 854-8373, or check for information in the Physical Education Department in Room 209, Barnard Hall.

Registration: Registration takes place at the beginning of each semester. Information is available in the north lobby of Barnard Hall as well as in the Physical Education office. After confirming registration with the Physical Education Department, students should include the Physical Education course by number, section, title, and I.D. number on final programs filed with the Registrar.

Cross Registration: An agreement between the Department of Physical Education of

Barnard College and Columbia College permits limited enrollment of Barnard students in selected Columbia courses. Barnard students must successfully complete one Physical Education course at Barnard before they may elect a Columbia Physical Education course. Columbia College and Engineering School students may register for designated Barnard courses during Barnard's registration period. Other Columbia University students must receive permission from the Physical Education Department to register before filing their final programs with the Registrar. Registration is not open to graduate students.

Courses: Classes are organized in homogeneous skill groups for optimal learning. Students are advised to register according to their own skill level: Beginning or Advanced Beginning.

COURSES OF INSTRUCTION

AQUATIC COURSES

PED BC 1120x, y

Beginning Swimming

Development of confidence and safety skills in the water. Introduction of front crawl, elementary backstroke, and deep water skills. No previous experience required. *Women only.*

PED BC 1121x, y

Advanced Beginning Swimming

Review of safety skills, front crawl, and elementary backstroke. Further development of deep water skills. Introduction of breaststroke, side-stroke, and backstroke.

PED BC 3125x, y

Lap Swim

Students determine an individual training program with the instructor on a contract basis.

Completion of one physical education course required. Swimming fitness test for class admission given prior to first class meeting.

PED BC 3131x

Lifeguard Training and First Aid

Pool management, preventive lifeguarding, swimming and equipment rescues; leads to American Red Cross certification in "Life-guarding Today."

Swimming test for class admission given during first class meeting.

SPORTS COURSES

PED BC 1350x, y

Archery

Techniques of shooting target archery. Individualized instruction for all levels; selection and care of equipment; safety; intraclass tournaments and novelty shoots.

PED BC 1353x, y

Badminton

Strokes, strategies, singles and doubles play.

Intraclass tournaments provide competition for all levels.

PED BC 1357x, y

Bowling

Basic techniques of spot bowling and spare conversion; scoring and game play.

PED BC 1360x, y

Fencing

Basic offensive and defensive foil techniques; footwork, rules, officiating, and bouting.

PED BC 1362x, y

Golf

Introduction to the game of golf through a variety of indoor drills to develop all facets of the game; includes proper club selection, effective swing techniques, and the "long and short" game.

PED BC 1364x, y

Beginning Tennis

Fundamentals of forehand, backhand, and serve. Introduction to rules, scoring, and etiquette.

PED BC 1365x, y

Advanced Beginning Tennis

Refinement of forehand, backhand, and serve. Further instruction in scoring, rules, tactics, and etiquette. Introduction of the volley and doubles play. *Completion of Beginning Tennis or permission of the instructor is required.*

PED BC 1470x, y

Volleyball

Introduction of forearm pass, overhead pass, serve and spike, and basic offensive and defensive strategies of power volleyball.

PED BC 3898x, y

Varsity Team Archery

Practice and intercollegiate competition in Indoor Target Archery.

Permission of coach required. For other varsity teams, see Columbia course offerings.

FITNESS COURSES

PED BC 1359x, y
Self-Paced Cycling

Individualized program of aerobic exercise utilizing stationary cycles performed on a contract basis. Completion of one physical education course required. Cycling test for class admission given prior to first class meeting.

PED BC 1580x, y
Body Sculpting

Introduction to strength and endurance exercises to develop muscle definition for the upper and lower body. Emphasis on correct body placement. Flexibility work included.

PED BC 1582x, y
Aerobics

Combination low/moderate impact cardio-vascular exercise performed to a variety of music. Muscle toning exercises also included.

PED BC 1585x, y
Weight Training

Introduction to principles of weight training; use of the Universal Weight Machine and free weights. Programs tailored to individual needs.

PED BC 1587x, y
Step

Low-impact cardiovascular exercise using the Step Reebok™ bench. Muscular endurance and flexibility work included.

SPECIAL COURSES

PED BC 1101x, y
Lifetime Wellness

Introduction to the fundamental principles of wellness and physical activity, including physical fitness, health, and wellness assessments. Topics include practical concerns for self-management within an active lifestyle and disease prevention.

PED BC 1690x, y
Self-Defense

Development of confidence, using basic defensive and offensive moves, so that a person can handle a threatening situation effectively and with minimal confrontation.

PED BC 1693x, y
Yoga

Basic Hatha yoga positions; body awareness; relaxation; breathing exercises.

PED BC 2799x, y
Independent Study

Enrollment in a course of instruction not offered by the Barnard or Columbia Physical Education Departments.

Not open to first-year or transfer students. Approval of department required. Limited to one semester.

DANCE

See Dance Department (page 126) for course listings. Studio dance courses may be taken to fulfill the Physical Education requirement. Dance courses taken to fulfill the Physical Education requirement do not carry academic credit.

Courses offered are:

- Ballet: Beginning, Low Intermediate, Intermediate, Advanced.
- Jazz: Low Intermediate, Intermediate.
- Modern: Beginning, Low Intermediate, Intermediate.
- Tap: Beginning, Intermediate.

Professor: Richard Friedberg (Chair)

Associate Professor: Timothy Halpin-Healy

Assistant Professors: Laura Kay, Reshmi Mukherjee

Other officers of the University offering courses listed below:

Professors: James Applegate, Norman Baker, Sven Hartmann, David Helfand, Steven Kahn, Wongyong Lee, Shoji Nagamiya, Joseph Patterson, Kevin Prendergast, Melvin Schwartz, Michael Shaevitz, Ed Spiegel, Jacqueline Van Gorkom

Associate Professors: Arlin Crotts, Philip Kaaret

Assistant Professors: Marc Kamionkowski, Steven Ritz, Brian Winer

Adjunct Professors: Bruce Knapp, Morgan May

From Aristotle's *Physics* to Newton's *Principia*, the term "physics," taken literally from the Greek φυσικς (= Nature), implied natural science in its very broadest sense. Physicists were, in essence, natural philosophers, seeking knowledge of the observable phenomenal world. Astronomy, a sibling science to physics, concentrated specifically on the study of natural phenomena in the heavens with the intent to understand the constitution, relative positions, and motions of the celestial bodies in our universe. Though practitioners of these disciplines have become somewhat more specialized in the past century, the spirit that guides them in their research remains the same as it was more than two millennia ago.

In cooperation with the faculty of the University, Barnard offers a thorough preprofessional curriculum in both physics and astronomy. The faculty represents a wide range of expertise, with special strength and distinction in theoretical physics, condensed matter physics, elementary particle physics, and observational astronomy.

Separate majors in physics and astronomy are offered. A major in astrophysics is also possible. Furthermore, there are many special interdisciplinary majors possible, such as biophysics, chemical physics, engineering physics, and mathematical physics. There is a physics minor as well. Students should consult members of the department early on in their undergraduate careers in order to plan the most effective course of study.

A major examination is required for both astronomy and physics; there is no senior essay required for either. Qualified seniors are invited to participate in the seniors honors program, in which they carry out a year-long research project leading to the thesis.

The department offers several quite distinct introductory sequences in physics, only one of which may be taken for credit:

1. PHY V 1051-2, *General Physics*, is a two-semester introduction to physics intended for liberal arts students. The lectures are given on the Columbia campus and the labs at Barnard. It satisfies the Barnard Laboratory Science requirement. It does not fulfill the premedical requirement or the physics requirement for any major.
2. PHY V 1201-2 *General Physics* is satisfactory preparation for medical school and is appropriate for most non-science major pre-medical students. This course, devoted to algebra-based physics, is taught at Columbia in a large lecture hall setting. It is not recommended as a foundation for more advanced work in the field. PHY V 1301-2 is similar but uses calculus.
3. PHY BC 1206-8, *Physics I, II, III*, is Barnard's own three-semester, calculus-based introductory sequence in physics. Characterized by modest class sizes, it is designed specifically for Barnard women with a serious interest in any of the natural sciences or mathematics. Moreover, it is especially appropriate for majors in physics, chemistry, or biochemistry, whether premedical or not. Biology majors with some calculus background

are also encouraged to take this sequence. Finally, Barnard women contemplating a major in physics or astronomy should take PHY BC 1206-7 in their first year, if possible, or in their second at the latest, to be followed by the third-semester course, *Waves and Optics*.

4. First-year students with exceptional aptitude for physics (as evidenced, for example, by scores of 4 or 5 on the advanced placement C exam) and a good mathematical background may be admitted into the Columbia-taught two-semester sequence PHY C 2801-02 *General Physics*, which replaces all three terms of the sequence for majors. Students inclined toward this sequence are strongly encouraged to consult a Barnard faculty member at the start of the term.

Students unsure about the most appropriate sequence should consult members of the department.

The following courses may be substituted for each other:

- PHY BC 1206, and C 1601 with W 1691
- PHY BC 1207, and C 1602 with W 1692
- PHY BC 1208 and C 2601
- AST V 1753-4 and C 1403-4

There is a laboratory fee of \$25 for each 1000-level physics course with a laboratory.

REQUIREMENTS FOR THE ASTRONOMY MAJOR

The courses required for the major in astronomy are:

- PHY BC 1206 *Physics I: Mechanics*
- PHY BC 1207 *Physics II: Electricity & Magnetism*
- PHY BC 1208 *Physics III: Waves and Optics*

Students may substitute a Columbia College three-semester calculus-based introductory physics sequence with lab, as in the physics major.

Calculus through IIIS/IVA is required, with additional work in mathematics recommended. Also:

- AST C 2001, 2002 *Introduction to Astrophysics I, II*
- Students who have taken AST V 1753-4 (*Introduction to Astronomy I, II*) or C 1403-4 may substitute an additional 3000-level AST course for AST C 2001-2.

Finally, students are required to take four 3000-level AST or PHY courses, including at least one of AST C 3102 or PHY W 3003 *Mechanics*, and selected so that at least six total points of 3000-level lecture classes are AST courses. Some of the AST courses offered in recent years include:

- AST C 3101 *Stellar Structure and Evolution*
- AST C 3102 *Planetary Dynamics and Physics of the Solar System*
- AST C 3601 *General Relativity, Black Holes, and Cosmology*
- AST C 3602 *Physical Cosmology and Extragalactic Astronomy*
- AST C 3646 *Observational Astronomy*

Students planning to study astronomy or astrophysics in graduate school are strongly urged to take PHY W 3003, 3007-8, 3021-22, some additional courses in mathematics, and Computer Science (CSC) W 1003 *Programming in C* or W 1005 *Fortran Programming*. Note: When any of the required courses is not being given, the department will recommend appropriate substitutions.

REQUIREMENTS FOR THE PHYSICS MAJOR

The courses required for the major in physics are:

- PHY BC 1206 *Physics I: Mechanics*
- PHY BC 1207 *Physics II: Electricity & Magnetism*

PHY BC 1208

Physics III: Waves and Optics

In lieu of the above, any three-semester Columbia introductory sequence acceptable for the physics major in Columbia College will do (e.g., PHY C 1601-2, 2601, taken with PHY W 1691-3). The accelerated two-semester Columbia College sequence PHY C 2801-2 is also acceptable.

Calculus through IIIS/IVA is required, with additional work in mathematics recommended; e.g., Math E 1210x,y *Ordinary Differential Equations*, APMA E 3102y *Applied Mathematics II*. The calculus sequence should be completed by the end of the sophomore year.

At the upper level:

PHY W 3003

Mechanics

PHY W 3007

Electricity and Magnetism

PHY W 3008

Electromagnetic Waves and Optics

PHY W 3021

Quantum Physics

PHY W 3022

Statistical Physics

are required, as are 4.5 points total of advanced lab work via PHY BC 3082/W 3081.

Finally, the student must take Computer Science W 1003 *Programming in C*, W 1005 *Fortran Programming*, or PHY W 3083 *Electronics Laboratory*.

Students planning to study physics in graduate school should include several 4000-level electives in their senior year program.

Astrophysics Majors: Students wishing to major in astrophysics should consult a member of the department.

INTERDISCIPLINARY MAJORS

Special majors in, for example, biophysics, chemical physics, engineering physics, or mathematical physics are all possible and are arranged in conjunction with the relevant second department at Barnard. A student interested in such possibilities should speak to a faculty member early on (i.e., by late fall of her sophomore year) in order to permit the most effective construction of her program of study and the appropriate petition to be made to the Committee on Programs and Academic Standing. The latter is a straightforward procedure associated with the declaration of all special majors at Barnard.

REQUIREMENTS FOR THE PHYSICS MINOR

Five courses are required for the minor in physics. They are: any three-semester introductory sequence acceptable for the major (see above); and two 3-point courses at the 3000-level.

COURSES OF INSTRUCTION

ASTRONOMY COURSES

AST V 1753x

Introduction to Astronomy I

An introduction to astronomy, taught at Barnard, intended primarily for non-science majors. Includes the history of astronomy, the apparent motions of the moon, sun, stars, and planets, gravitation and planetary orbits, the physics of the Earth and its atmosphere, and the exploration of the solar system. —Instructor TBA.

Recommended preparation: A working knowledge of high school algebra. *Suggested parallel laboratory course:* AST C 1903x.

3 points.

AST V 1754y

Introduction to Astronomy II

The properties of stars, star formation, stellar evolution and nucleosynthesis, the Milky Way and other galaxies, and the cosmological origin and evolution of the universe. —Staff
Recommended preparation: A working knowledge of high school algebra. *Suggested parallel laboratory course:* AST C 1904y.

3 points.

AST C 1903x

Earth, Moon, and Planets Laboratory

This laboratory is for the lecture courses AST V

1753x or AST C 1403x. The lecture course must be taken concurrently. —Staff
Corequisite: AST V 1753x or AST C 1403x.
 1 point.

AST C 1904y

Stars, Galaxies, and Cosmology Laboratory

This laboratory is for the lecture courses AST V 1754y and AST C 1404y. A lecture course must be taken concurrently. —Staff
Corequisite: AST V 1754y or AST C 1404y.
 1 point.

AST C 1403x

Earth, Moon, and Planets (lecture)

The overall architecture of the solar system. Motions of the celestial sphere. Time and the calendar. Life in the solar system and beyond. —J. Applegate
Open to any student offering astronomy in partial fulfillment of the science requirement. Recommended preparation: A working knowledge of high school algebra.
 3 points.

AST C 1404y

Beyond the Solar System

Distances to, and fundamental properties of, nearby stars; nucleosynthesis and stellar evolution; novae and supernovae; galaxies; the structure of the universe and theories concerning its origin, evolution, and ultimate fate. —J. van Gorkom
Open to any student offering astronomy in partial fulfillment of the science requirement. Recommended preparation: A working knowledge of high school algebra.
 3 points.

AST C 1420y

Galaxies and Cosmology

The content, structure, and possible evolution of galaxies. The “21-centimeter line”: the song of interstellar hydrogen. Distribution of mass, seen and unseen, in galaxies and clusters of galaxies. The origin of the universe, and the present controversy over its eventual fate. —A. Crofts
Prerequisite: Working knowledge of high school algebra.
 3 points.

AST C 2001x

Introduction to Astrophysics I

The first term of a two-term, calculus-based introduction to astronomy and astrophysics. Topics include the physics of stellar interiors, stellar atmospheres and spectral classifications, stellar energy generation and nucleosynthesis, supernovae, neutron stars, white dwarfs, interacting binary stars. —J. Patterson
Prerequisite: A working knowledge of calculus.
Corequisite: A course in calculus-based general physics.
 3 points.

AST C 2002y

Introduction to Astrophysics II

Continuation of AST C 2001x. These two courses constitute a full year of calculus-based introduction to astrophysics. Topics include the structure of our galaxy, the interstellar medium, star clusters, properties of external galaxies, clusters of galaxies, active galactic nuclei, cosmology. —J. Halpern
Prerequisite: A working knowledge of calculus.
Corequisite: A course in calculus-based general physics.
 3 points.

AST C 2900x

Frontiers of Astrophysics Research

Several members of the faculty will each offer a brief series of talks providing context for a current research topic in the field and will then present recent results of their ongoing research. Opportunities for future student research collaboration will be offered. Grading is Pass/Fail. —A. Crofts and Staff
 1 point.

AST C 3101

Stellar Structure and Evolution

The physics of stellar structure, stellar atmosphere, nucleosynthesis, stellar evolution, interacting binary stars, white dwarfs, and neutron stars. —N. Baker
Prerequisite: One year of calculus-based general physics.
 3 points.

AST C 3102

Planetary Dynamics and Physics of the Solar System

Orbital dynamics, planetary rings, planetary atmospheres, interiors of terrestrial and Jovian planets, comets, and the solar wind. —J. Patterson
Prerequisite: A working knowledge of calculus and university-level introductory physics.
 3 points.

AST C 3601x

General Relativity, Black Holes, and Cosmology

An introduction to general relativity, Einstein’s geometrical theory of gravity. Special relativity, tensor calculus, the Einstein field equations, the Friedmann equations and cosmology, black holes, gravitational lenses and mirages, gravitational radiation, and black hole evaporation. —E. Spiegel
Prerequisite: One year of calculus-based general physics.
 3 points.

AST C 3602y

Physical Cosmology and Extragalactic Astronomy

Presents the standard hot big-bang cosmological model and modern observational results which test it. Topics include the Friedmann equations, the standard model of particle physics, the age of the universe, primordial nucleosynthesis, the cosmic microwave background, the extragalactic distance scale, modern observations. —J. Applegate
Prerequisite: One year of calculus-based general physics.
 3 points.

AST W 3461x

Order and Disorder in Nature

Prerequisite: Math V 1102 or the equivalent, or permission of the instructor.
 3 points.

AST C 3646x

Observational Astronomy

An introduction to the basic techniques used in obtaining and analyzing astronomical data. Focus on “ground-based” methods, at optical, infrared, and radio wavelengths. Regular use of the telescope facilities atop the roof of Pupin Labs, and at the Harriman Observatory. The radio-astronomy portion consists mostly of computer labs. In research projects, students also work on the analysis of data obtained at national observatories. —A. Crotts
Prerequisites: One year of general astronomy.
 3 points.

AST C 3997x and C 3998y

Independent Research

A variety of research projects conducted under the supervision of members of the faculty. Observational, theoretical, and experimental work in galactic and extragalactic astronomy and cosmology. The topic and scope of the work must be arranged with a faculty member in advance: a written paper describing the results of the project will be required at its completion. (A two-semester project can be designed so that the grade YC is given after the first term.) Senior majors in Astronomy or Astrophysics wishing to do a Senior thesis should make arrangements in May of their junior year and sign up for a total of six points over their final two semesters. Both a substantial written document and an oral presentation of thesis results will be required.
 3 points.

Astronomy-Physics-Geology C 1234x-1235y

The Universal Timekeeper:

An Introduction to Scientific Habits of Mind

—D. Helfand

Prerequisite for C 1235y is C 1234x.
 3 points.

For description of other astronomy courses, see the *Columbia College Bulletin*.

PHYSICS COURSES

PHY V 1051x, 1052y

Elementary Physics

An introduction to physics with emphasis on quantum phenomena, relativity, and models of the atom and its nucleus. —S. Ritz

No previous background in physics is expected; high school algebra is required. Includes laboratory given at Barnard. Satisfies the Barnard science requirement, but not the physics requirement for admission to medical school.

4 points.

PHY V 1201x, 1202y

General Physics

Mechanics, heat, electricity, magnetism, optics, and modern physics. —B. Winer

No prerequisite. Non-calculus-based approach. Should be taken with accompanying lab PHY V 1291x, 1292y.

3 points.

PHY BC 1206x

Physics I: Mechanics

Fundamental laws of mechanics. Kinematics, Newton's laws, work and energy, conservation laws, collisions, rotational motion, oscillations, gravitation. —Instructor TBA.

Corequisite: Calculus I or the equivalent.

4.5 points. Laboratory TBA.

PHY BC 1207y

Physics II: Electricity and Magnetism

Charge, electric field, and potential. Gauss's law. Circuits: capacitors and resistors. Magnetism and electromagnetism. Induction and inductance. Alternating currents. Maxwell's equations. —Instructor TBA.

Prerequisite: Physics BC 1206x or the equivalent.

Corequisite: Calculus II.

4.5 points. Laboratory TBA.

PHY BC 1208x

Physics III: Waves and Optics

Classical wave phenomena: slinkies, strings, sound, water, light, rainbows, Green Flash; geometrical optics; interference, diffraction.

—T. Halpin-Healy

Prerequisites: Physics BC 1207y or the equivalent.

Corequisite: Calculus III.

4.5 points. Laboratory TBA.

PHY V 1900x, y

Seminar in Contemporary Physics and Astronomy

Lectures on current areas of research with discussions of motivation, techniques, and results, as well as difficulties and unsolved problems. Each student submits a written report on one field of active research. —Instructor TBA.

Prerequisite or corequisite: Any 1000-level course in the Physics or Astronomy departments. This course may be repeated for credit only with the instructor's permission.

1 point.

PHY C 2801x, 2802y

General Physics

Mechanics, heat, electricity, magnetism, and light. —A. Blaer

Prerequisite: Advanced placement in mathematics or some knowledge of differential and integral calculus and permission of the departmental representative.

(A special placement meeting is held during Orientation Week.)

4 points.

PHY W 3003x

Mechanics

Newtonian mechanics. Oscillations and resonance. Conservative forces and potential energy. Central forces. Non-inertial frames of reference. Rigid body motion. Introduction to Lagrangian mechanics. Coupled oscillators and normal modes. —W. Zajc

Prerequisites: General physics and integral calculus. 3 points.

PHY W 3007y

Electricity and Magnetism

Electrostatics and magnetostatics. Laplace's equation and boundary-value problems. Multipole expansion. Dielectric and magnetic materials. Faraday's law. AC circuits. Maxwell's equations. Lorentz covariance and special relativity. —M. Schwartz

Prerequisites: BC 1207 or the equivalent, and differential and integral calculus.

3 points.

PHY W 3008x

Electromagnetic Waves and Optics

Maxwell's equations and electromagnetic potentials. The wave equation. Propagation of plane

waves. Reflection and refraction. Geometrical optics. Transmission lines, wave guides, and resonant cavities. Radiation. Interference of waves. Diffraction. —S. Kahn

Prerequisite: W 3007y.

3 points.

PHY W 3021y

Quantum Physics

Wave-particle duality and the Uncertainty Principle. The Schrödinger equation. Basic principles of the quantum theory. Energy levels in one-dimensional potential wells. The harmonic oscillator, photons, and phonons. Reflection and transmission by one-dimensional potential barriers. Applications to atomic, molecular, and nuclear physics. —M. Shaevitz

Prerequisite: BC 1208 or C 1802 or the equivalent. 3 points.

PHY W 3022y

Thermal and Statistical Physics

Thermodynamics, kinetic theory, and statistical mechanics. Energy and entropy. Classical and quantum statistics. Ideal and real gases. Black-body radiation. Chemical equilibrium. Phase transitions. Ferro-magnetism. —P. Kaaret

Prerequisite: W 3021x.

3 points.

PHY W 3072y

Seminar in Current Research Problems

A detailed study of a selected field of active research in physics. The motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems. —Instructor TBA.

Open only to senior majors. May be taken for Pass/D/Fail credit only.

2 points.

PHY W 3081x, y

Intermediate Laboratory Work

The laboratory has available 12 individual experiments, of which two are required for 1.5 points. Each experiment is chosen by the student in consultation with the instructor. Registration in each section is limited by the laboratory capacity. Experiments (classical and modern) cover electricity, optics, and atomic and nuclear physics topics.

—S. Hartmann, M. May

For junior and senior physics majors. May be repeated for credit by performing different experiments.

1.5 points.

PHY BC 3082x, y

Advanced Physics Laboratory

Barnard College physics laboratory has available

a variety of experiments meant to complement 3000-level lecture courses. Each experiment requires substantial preparation, as well as written and oral presentations. *Quantum experiments*: hydrogenic spectra, h/e measurement, Frank-Hertz apparatus, electron diffraction. *E&M experiments*: transmission line solitons, Faraday rotation, Michaelson interferometer, Fresnel diffraction. *Elementary particle experiments*: detectors, cosmic ray triggers, muon lifetime. *Numerical experiments*: statistical physics, chaos. —T. Halpin-Healy
To be taken concurrently with W 3021y and W 3008x.
 1.5 points.

PHY W 3083x, y
Electronics Laboratory
 Experiments in solid state electronics, with introductory lectures. —B. Knapp
Permission of the instructor required.
Corequisite: W 3003 or W 3007. Registration is limited to the capacity of the laboratory.
 2 points.

PHY V 3500x, y
Supervised Readings in Physics
 Readings in a selected field of physics under the supervision of a faculty member. Written reports and periodic conferences with the instructor. —Staff
Prerequisite: Written permission of the faculty member who agrees to act as supervisor and the permission of the departmental representative.
 3 points.

PHY V 3900x, y
Supervised Individual Research
 For specially selected students, the opportunity to do a research problem in contemporary physics under the supervision of a faculty member. Each year several juniors are chosen in the spring to carry out such a project beginning in the autumn term. A detailed report on the research is presented by the student when the project is complete. —Staff
Permission of the departmental representative required.
 1 to 5 points a term.

PHY G 4003y
Advanced Mechanics
 Lagrange's formulation of mechanics. The calculus of variations and the action principle. Hamilton's formulation of mechanics. Applications to rigid body motion and normal modes. —M. Kamionkowski
Prerequisite: W 3003.
 3 points.

PHY G 4021x
Quantum Mechanics
 The formulation of quantum mechanics in terms of state vectors and linear operators. Three-dimensional spherically symmetric potentials. The theory of angular momentum and spin. Identical particles and the exclusion principle. Methods of approximation. Multi-electron atoms. —Instructor TBA.
Prerequisites: W 3003, W 3007, W 3021.
 3 points.

For a description of other courses, see the *Columbia College Bulletin*.

PHY V 1091x, 1092y
The Elementary Physics Laboratory
The laboratory of V 1051, 1052 without the lecture.
 1 point.

PHY W 1201y, 1202x
General Physics
 3 points.

PHY C 1291x, 1292y
General Physics Laboratory
Laboratory to accompany V 1201, 1202.
 1 point.

Professors: Demetrios Caraley (Janet H. Robb Professor), Dennis Dalton, Peter Juviler, Richard M. Pious (Adolf S. and Effie E. Ochs Professor)

Associate Professors: Michael X. Delli Carpini (Chair), Paula Franzese (Visiting), Ester Fuchs

Assistant Professors: Linda J. Beck, Xiaobo Lu, Judith Russell, J. Phillip Thompson, Kimberly M. Zisk

Lecturers: Leslie Calman, John H. Glascock

Departmental Administrator: Nell Dillon-Ermers

Other officers of the University offering courses listed below:

Professors: Lisa Anderson, David A. Baldwin, Thomas P. Bernstein, Richard Betts, Douglas A. Chalmers, Gerald L. Curtis, John Elster, Julian H. Franklin, Robert Jervis, Ira Katznelson, Mark Kesselman, Robert Legvold, Helen Milner, Andrew Nathan, Richard Nelson, John Gerard Ruggie, Warner R. Schilling, Robert Shapiro, Jack Snyder

Associate Professors: Charles Cameron, Jean Cohen, David Johnston, Hendrik Spruyt

Assistant Professors: David L. Downie, David Epstein, Peter A. Johnson, Robert C. Lieberman, Arvid Luskauskas, Anthony Marx, Walter Mattli, Nolan McCarty, Sharyn O'Halloran, Steven Solnick, Nadia Urbinati, Robert M. Uriu, Gregory Wawro, Patrick J. Wolf

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems and public policies in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching. Students interested in public service careers should inquire about the two five-year joint-degree programs at Columbia University's School of International and Public Affairs (SIPA): the Graduate Program in Public Policy and Administration (MPA) and the Master of International Affairs Program (MIA).

REQUIREMENTS FOR THE MAJOR

A student majoring in Political Science is required to take a minimum of nine semester courses from the department's listed offerings, including:

- A. Political Science BC 3001 *Dynamics of American Politics*
- B. One of the following courses:
 - Political Science V 3501 *Introduction to Comparative Politics*
 - Political Science V 3601 *International Politics*
 - Political Science BC 3013 *Political Theory*
- C. Two colloquia or other courses requiring a research paper from among those courses designated by an asterisk (*); and
- D. Two semesters of research seminar for the senior thesis (see below).

In order to have the opportunity for independent specialized work in depth, and to explore more fully the techniques of scholarly investigation, both majors and concentrators are required to write a senior thesis as part of the work for the required two-semester research seminar (either Political Science BC 3761-BC 3762 *Research Seminar*, or V 3711-V 3712 *Research Seminar in American Politics*).

The department's requirements are flexibly drawn to permit a major, in consultation with her adviser, to plan an overall program that, while providing some background in various

areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

Departmental approval must be granted for transfer courses used toward the major. Only three transfer courses may be counted.

REQUIREMENTS FOR URBAN STUDIES MAJORS
WITH POLITICAL SCIENCE CONCENTRATION

A student majoring in Urban Studies with a concentration in Political Science is required to take a minimum of six semester courses, including:

Political Science BC 3001	<i>Dynamics of American Politics</i>
Political Science V 3313	<i>American Urban Politics</i>

Two from the following courses:

Political Science BC 3322	<i>The American Congress</i>
Political Science BC 3326	<i>Colloquium on Civil Rights and Liberties</i>
Political Science BC 3327	<i>Colloquium on the Content of American Politics</i>
Urban Studies BC 3535- BC 3537	<i>Colloquium—Workshop in Urban Administration and Management</i>
Political Science G 8232	<i>Colloquium on Urban Politics, Policymaking, and Administration</i>

Two semesters of research seminar for the senior thesis.

REQUIREMENTS FOR THE MINOR

A student minoring in Political Science is required to take a minimum of five semester courses, including Political Science BC 3001.

COURSES OF INSTRUCTION

In addition to Barnard offerings, the following list includes the titles and instructors of selected Columbia offerings for the 1997-99 academic years. For detailed descriptions of these courses, see the *Columbia College Bulletin*.

GENERAL COURSES

Courses listed under this heading may be taken without previous study of political science.

POS BC 3001x, y
Dynamics of American Politics
Examination of the dynamics of the American political system at the national level, including political participation elections, political parties, and national political institutions: the Presidency, the Congress, and the Judiciary. —R. Pious, M. Delli Carpini, J. Russell
Credit is not granted for both this course and W 3201.
3 points. III S

POS BC 3007y
Modern Political Movements
Causes, structures, and strategies of 20th-century political movements with particular reference to issues of imperialism, nationalism, gender,

and race. Case studies of Indian nationalism, Nazism, Bolshevism, and the women's and civil rights movements. —Staff
3 points. I S

POS BC 3013x, 3014y
Political Theory I, II
Major texts of political theory from Plato to the present. Emphasis on comparison of basic concepts such as those of human nature and the ideal society, freedom and authority, equality and leadership, methods of creating change. —D. Dalton
BC 3013 is a prerequisite for BC 3014. No credit is given for BC 3014 unless BC 3013 has been satisfactorily completed.
3 points. S

POS V 3313y
American Urban Politics
Patterns of government and politics in America's

large cities and suburbs. Urban socioeconomic environment; influence of party leaders, local officials, and social and economic notables; racial, ethnic, and other interest groups; the press, the general public, and federal and state governments; the impact of urban government on ghetto and other urban problems. —J.P. Thompson
3 points. III S

POS V 3501x, y

Introduction to Comparative Politics

An introduction to major issues and theories in comparative politics, democratization, and human rights. —x: P. Johnson; y: L. Beck, P. Juviler, X. Lu
Discussion sections TBA.
3 points. I S

POS V 3601x, y

International Politics

Setting and dynamics of global politics; application of theories of international relations to selected historical and contemporary problems. —x: K. Zisk; y: H. Spruyt
Discussion sections TBA.
3 points. I S

LECTURE COURSES

American Government and Politics

POS W 3245x

Race and Ethnicity in American Politics

The historical and contemporary roles of various racial and ethnic groups; initiation, demands, leadership and organizational styles, and orientation, benefits, and impact on the structures and outputs of governance in the United States. —J.P. Thompson
Prerequisite: POS BC 3001 or permission of the instructor.
3 points. III S

POS V 3320x

Contemporary Black Politics

An examination of the major issues in contemporary black politics, including voting, black electoral campaigns, the role of African Americans in national politics, and African Americans in political office. —J.P. Thompson
3 points. III S

POS BC 3322y

The American Congress

Dynamics, organization, and policymaking processes of the American Congress. Relationship of legislators to constituents, lobbyists, bureaucrats, the President, and one another. —Staff
Prerequisite: BC 3001 or the equivalent.
3 points. III

POS BC 3335y

Mass Media and American Democracy

An examination of the structure of the mass media in the United States and their impact on the political and social beliefs, opinions, and behaviors of both the mass public and political elites. Particular attention will be paid to the tension that forms between the potential for an informed citizenry and the potential for a manipulated public. —M. Delli Carpini
Prerequisite: BC 3001 or the equivalent.
3 points. III S

POS BC 3336x, y

Workshop in Mass Media and Politics

Students intern at mass media organizations in New York City (newspapers, magazines, television, and radio stations, etc.) while doing readings in media and politics. Reading lists are tailored to specific internships. Students meet every other week with instructor to discuss readings and connect them to internship experiences. Research paper required. —M. Delli Carpini
Junior or senior status: Prearrange internship through the Office of Career Development.
Prerequisite or corequisite: POS BC 3335 or the equivalent. Permission of the instructor required.
2 points. Hours by arrangement.

POS W 4226x

American Politics and Social Welfare Policy

The politics and development of the American welfare state. Study and analysis of the origins and growth of domestic social programs which provide income support (welfare and social security), employment opportunities, health care, and protection against poverty. —J. Russell
3 points. III S

POS W 4311x

American Parties and Elections

The changing role of political parties and elections in the American political system. The historical development of party conflict; the structure of party organization at the local and national levels; the roles of party and the media during presidential elections; who votes and why; and the future of American political parties. —E. Fuchs
3 points. III S

POS W 4316x

The American Presidency

Growth of presidential power, creation and use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the presidency and the national security apparatus. —R. Pious

<i>Prerequisite: BC 3001 or the equivalent.</i>			
3 points.	III	S	
POS W 4321y			
The Constitutional Law of Presidential-Congressional Relations			
Examination of the constitutional issues involved in presidential-congressional relations, including assertions of presidential emergency powers, control of the administrative agencies, congressional investigations and the independent counsel, and the constitutional law of presidential diplomatic and war powers. —R. Pious			
3 points.	III	S	
POS W 3399x			
The Supreme Court and American Politics			
—A. Westin			
<i>Prerequisite: Sophomore standing.</i>			
3 points.	III	S	
POS W 3400x			
Law and Politics of Civil Liberties			
—A. Westin			
3 points.	III	S	
POS W 4290y			
Themes in 20th-Century American Politics and Society			
—I. Katznelson			
3 points.	III	S	
Comparative Politics and Foreign Government			
POS BC 3424x			
Asian Politics			
A survey of origins, development, and dynamics of politics in post-war Asia, with a focus on countries in East and Southeast Asia. Examines political institutions, cultures, and processes in these countries. —X. Lu			
<i>Prerequisite: POS BC 3424 or V 3501 or permission of the instructor.</i>			
3 points.	II	S	
POS V 3620x			
Introduction to Contemporary Chinese Politics			
An introduction to some basic aspects and major events in Chinese political life under the communists since 1949, focusing on the post-Mao reform period since 1978. Examination of economic and political development in China in a broader context of global transition from authoritarianism and state socialism. —X. Lu			
<i>Prerequisite: POS V 3501 or POS BC 3424 or permission of the instructor.</i>			
3 points.	II	S	
POS W 4402y			
The Political Community			
Political communities past and present, in theory and practice, democratic and otherwise. Nostalgic, utopian, and existing communities, local, national and transnational. Debates over individual rights and community responsibilities; group and shared ethnic group identities. Stability, breakdown, and formation of political communities and political systems and their relationship. —P. Juviler			
3 points.			I S
POS W 4496y			
Contemporary African Politics			
Topics include the transition from colonialism to independence, ethnic and class relations, the state, strategies for development, international influences, and case studies of selected countries. —L. Beck			
<i>Prerequisite: POS V 3501 or the equivalent or permission of the instructor.</i>			
3 points.			II S
POS W 4842y			
Conflicts and Conflict Resolution in the Middle East			
Comparative analysis of conflicts and efforts at conflict resolution in the Middle East, focusing on inter-Arab politics, the confrontation in the Gulf, and the Arab-Israel conflict. Sources of conflict between states, the dynamics of intervention in civil strife, and the role of extraregional actors will be examined. —Staff			
<i>Prerequisite: POS V 3501 or V 3601 or permission of the instructor.</i>			
3 points.			II S
POS W 3502x			
Political Change in the Third World			
—A. Marx			
3 points.			I S
POS W 3510y			
Democracy and Authoritarianism			
—D. Chalmers			
3 points.			I S
POS W 4420x			
Politics in Advanced Capitalism in Western Europe and the U.S.			
—M. Kesselman			
<i>Mandatory discussion section.</i>			
3 points.			III S
POS G 4461x			
Latin American Politics			
—R. Kaufman			
<i>Mandatory discussion section.</i>			
3 points.			III S

International Relations and Foreign Policy

POS W 3613x
International Politics and the Environment

—D. Downie
3 points. I S

POS W 3630x
The Politics of International Economic Relations

—W. Mattli
3 points. I S

POS W 3631x
American Foreign Policy

—D. Baldwin
3 points. III S

POS W 4808x
Weapons, Strategy, and War

—W. Schilling
3 points. I S

POS W 4812x
American Strategies in World Politics

—W. Schilling
3 points. III S

POS W 4846x
International Politics of the Middle East

—Instructor TBA.
3 points. II S

POS W 4871y
Chinese Foreign Policy

—T. Bernstein
3 points. II S

POS W 4882x
The Foreign Policies of the Post-Soviet States

—R. Legvold
3 points. III S

Political Theory

POS W 4133x
Foundations of Political Thought: Classical and Medieval

—J. Franklin
3 points. I S

POS W 4134y
Modern Political Thought

—Instructor TBA.
3 points. I S

POS W 4612y
Recent Continental Political Thought

—J. Cohen
3 points. III S

COURSES IN QUANTITATIVE METHODS

POS BC 3345y
Statistical Analysis of Politics and Policy

Use of the microcomputer, including SPSS and electronic spreadsheets, in analysis of problems in the political process and public policy; practical applications in statistical analysis.

Satisfies Quantitative Reasoning requirement.

Recommended prerequisite: POS BC 3001.

4 points.

Urban Studies UAT BC 3200x
Program Evaluation: Methods and Case Studies

An introduction to the approaches and methodology of program evaluation. Issues addressed: planning, program evaluation, process and outcome assessment, and benefit/cost critiques. Case studies will provide real-world examples of program evaluation techniques. Includes instruction on statistical techniques and computer software. Guest speakers will discuss urban programs in New York City in which they are involved. —Staff

Satisfies Quantitative Reasoning requirement.

Recommended prerequisite: POS BC 3001.

3 points.

POS W 4209x
Game Theory and Political Theory

—D. Epstein

3 points.

POS W 4910x
Principles of Quantitative Political Research

—Instructor TBA.

4 points.

POS W 4911y
Analysis of Political Data

—Instructor TBA.

4 points.

COLLOQUIA

Admission to any colloquium is limited to 16 students. Students must apply through the Political Science Department office during the preceding semester.

*POS BC 3118x
Colloquium on Problems in International Politics

Readings, discussions, and presentations on

selected problems in international politics.

— K. Zisk

Prerequisite: V 3601 and permission of the instructor.

4 points. I S

***POS BC 3119y**

Colloquium on Islam and Politics

Examination of how Islam shapes political institutions and attitudes. Analysis of Islam as religious doctrine and political ideology in six Muslim societies. Discussion of transnational issues of Islam and politics, including the status of women in Muslim societies, fundamentalism, and the "Islamic threat" in the post-Cold War era. —L. Beck

Prerequisite: V 3501 or the equivalent.

4 points. II S

***POS BC 3221x**

Colloquium on Politics and Human Rights in Post-Soviet Systems

The ordeal of freedom in Russia and other post-Soviet states. Continuity and change in theory and practice of human rights in domestic and foreign policy. This experience as a test of the universality of democracy and human rights. —P. Juviler
Prerequisite: V 3501 or BC 3007, or Soviet politics or history. Admission by application only.

4 points. I S

***POS BC 3326y**

Colloquium on Civil Rights and Liberties

Exploration of some currently evolving civil rights and liberties, primarily through analysis of Supreme Court decisions and pending cases. Topics include race and sex discrimination; sexual harassment; desegregation; affirmative action; freedom of expression, including pornography and "hate speech"; and abortion. —P. Franzese

Prerequisite: BC 3001 or equivalent and permission of the instructor.

4 points. III S

***POS BC 3327x**

Colloquium on Content of American Politics

Readings, discussions, and research on contemporary issues in American politics. Specific topics vary each semester, but have included the politics of race, the consequences of federalism, and the politics of the 1960s and its impact on contemporary politics. —J. Glascock, J.P. Thompson
Prerequisite: BC 3001 or equivalent and permission of the instructor.

4 points. III S

***POS BC 3331y**

Colloquium on American Political Decisionmaking

Readings on decisionmaking, policy analysis, and the political setting of the administrative process. Students will simulate an ad hoc Cabinet Committee assigned to prepare a presidential program to deal with aspects of the foreign aid program involving hunger and malnutrition. —R. Pious

4 points. I S

***POS BC 3333x**

Colloquium on Policy Analysis: The Politics of Jobs Policy

Examination and analysis of the political, economic, historical, and pragmatic factors which shape government employment policy today. Includes critical exploration of the economic assumptions that underpin government jobs policy and the way we do business, changes in the private sector that impact on the number and nature of available jobs, and the global business environment in which American business and workers must compete. —J. Russell

Prerequisite: BC 3001 or equivalent and permission of the instructor.

4 points. III S

***POS BC 3410y**

Colloquium on Human Rights in a Diverse World

Exploration of the nature of human rights and questions of their validity and relevance, protection and redefinition, in this world of cultural diversity and diversity of national interests. —P. Juviler
Open to juniors and seniors of Barnard and Columbia by application in November through the Barnard Political Science office, Lehman Hall.

4 points. I S

***POS BC 3414y**

Colloquium on Women and Third World Politics

An exploration of how women and political structures influence one another in Asia, Latin America, the Middle East, and Africa. How do different political systems and political cultures influence women's status and power? What are influences on women's level and mode of participation? What benefits do or do not accrue to women from participation? —L. Calman
Prerequisite: POS V 3501, BC 3007, or W3502.

4 points. I S

***POS BC 3416y**

Colloquium on Personality and Politics

Readings, discussion, and research on the role of personality in shaping political behavior, with special attention to the impact of personality in political leaders. —F. Davidson

Permission of the instructor required.

4 points.

III S

***POS BC 3423y**

Colloquium on Nonviolence

Nature and dynamics of nonviolent action, especially when it is directed at gaining political and social change. Focus on Mahatma Gandhi's theory and practice of nonviolence in South Africa and India, 1906-1947. Comparison of this example with other instances of nonviolent action in 20th-century America and Europe. —D. Dalton

Prerequisites: BC 3013, BC 3014, and BC 3007.

4 points.

I S

***POS BC 3425x**

Colloquium on the Politics of Development in East Asia

Designed to inform students about the politics of development in one of the world's most rapidly growing regions — East Asia (Japan, China, Korea, and Taiwan), focusing on the role of the state in economic development. —X. Lu

Prerequisite: V 3501 or the equivalent.

4 points.

II S

***POS BC 3433y**

Colloquium on Concepts of Democratic Political Theory

A study of the great books of political theory from Plato to the Federalist Papers to examine concepts such as power, elitism, democracy, tyranny, liberty, justice, the right to revolt, and force vs. morality. Throughout the course, these concepts will be related to the successes and failures of the American constitutional democracy. —D. Caraley

Permission of the instructor required.

4 points.

III S

***POS BC 3440y**

Colloquium on Women in Western Political Thought

Examines the treatment of women in major traditions of Western political thought. Questions of women's "nature" and their roles in public life and in the private sphere will be explored. Primary sources will include Plato, Aristotle, Rousseau, Locke, Marx, and Engels. —L. Calman

Permission of the instructor required.

4 points.

I S

***POS G 8232x**

Colloquium on Urban Politics, Policymaking, and Administration

Politics, policymaking, and administration in large cities. Particular attention is given to urban social and economic problems and the federal government's role in urban affairs; the resources, strategies, and tactics of selected officials and private influentials; and alternative futures of large cities. —D. Caraley

Prerequisite: BC 3001 or V 3313 and permission of the instructor.

4 points.

III S

***Political Science-Women's Studies**

PSW BC 3683x

Colloquium on the Politics of the Family

The development of and debates about U.S. public policies and laws relating to families. Issue areas include the creation of the modern welfare state; social welfare policies concerning mothers and children; contemporary debates about "family values"; changing definitions of family; governmental policies regarding violence within the family; divorce law and practice; and the state's role in regulating sexuality and reproduction. —L. Calman

4 points.

III S

***Urban Studies UST BC 3535y**

Colloquium on Urban Administration and Management

Processes of administration and management of cities. Executive leadership, decisionmaking, bureaucracy, budgeting, and personnel.

—Staff

Prerequisite: BC 3001 or V3313 or the equivalent.

4 points.

III S

Urban Studies UST BC 3537y

Workshop in Urban Administration and Management

Resources of New York City are utilized to gain first-hand experience of administrative and managerial processes through an unpaid internship of 8-10 hours per week. —Staff

Corequisite: Urban Studies BC 3535.

2 points. Hours by arrangement.

***Urban Studies UST V 3994x-3995y**

New York Area Undergraduate Research Program

An ongoing program that develops an original social research project from start to completion. This two-semester seminar deals with urban poverty, politics, and antipoverty policy. Using New York City as a research laboratory and working under the guidance of the faculty coordinator,

students learn many of the basic research tools used by social scientists. —J. Russell
Prerequisite: Junior or senior standing. Admission by application only. Participation is for two terms. Successful completion of both terms satisfies one semester of colloquium requirement, but not the senior thesis requirement, for Barnard POS majors.
 4 points. III S

RESEARCH SEMINARS

Admission to particular sections of the research seminar is limited. During Spring pre-registration a student must apply for the section desired. Only the two-semester research seminars V 3711x-3712y and BC 3761x-3762y satisfy the senior thesis requirement for Barnard POS majors.

POS V 3711x-3712y **Research Seminar in American Politics**

Discussions, conferences, and the writing of a senior essay on a topic, selected by each student, of American public policy and politics. —D. Caraley, M. Delli Carpini, R. Pious, J.P. Thompson
 4 points. Two semesters.

POS BC 3761x-3762y **Research Seminar**

Discussion and conferences on the researching and writing of the senior essay. — L. Beck, D. Dalton, P. Juviler, X. Lu, K. Zisk
 4 points. Two semesters.

The following seminars do not satisfy either the colloquium or senior thesis requirements for Barnard POS majors.

POS V 3701x, 3702y (Columbia) **Seminars in American Politics I, II** —Staff

Prerequisite: POS W 3201 and the instructor's permission. Either term may be taken separately.
 4 points.

POS W 3733x (Columbia) **Seminars in Comparative Politics**

Sec. 1: Major Dictators of the 20th Century.
 —T. Bernstein
 Sec. 2: Changing Forms of Participation and Representation. —M. Kesselman
Prerequisite: POS V 3501 or the equivalent.
 4 points.

POS W 3734y (Columbia) **Seminars in Comparative Politics:** **Political Parties**

—G. Curtis
 4 points.

POS W 3811x, 3812y (Columbia) **Seminars on International Politics**

—Staff
Prerequisite: POS V 3601 and the instructor's permission. Either term may be taken separately.
 4 points.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the bulletins of the Graduate School of Arts and Sciences, the Graduate Program in Public Affairs and Administration, and the School of International and Public Affairs.

COURSES OFFERED AT REID HALL IN PARIS

The following courses are offered, in French, at Reid Hall in Paris. For course descriptions and additional information, see the Reid Hall Programs bulletin available in 303 Lewisohn Hall.

Political Science H 3210x, y **France and Africa: Post-colonial Relations** —C. Amegan 3 points.

Political Science H 3270y **The Politics of French Identity** —P. Birnbaum, J. Costa-Lascoux 7 points.

History-Political Science H 3240x, y **The State and Political Life in France from the Revolution to the Present** —A. d'Appollonia 3 points.

History-Political Science H 3260x, y **The French Intellectual and France in Crisis: From the Dreyfus Case to May 1968** —C. Prochasson 3 points.

Professors: Peter Balsam (Samuel R. Milbank Professor), Lila Ghent Braine, Robert Remez (Chair), Rae Silver (Helene L. and Mark N. Kaplan Professor)

Adjunct Professor: Thomas Perera

Adjunct Associate Professors: William Fifer, Wendy McKenna, Corliss Parker

Assistant Professors: Larry B. Heuer, Tovah Klein, Gail Musen, Steven Stroessner, Barbara Woike

Senior Lecturer: Maria Crisafi, Carolyn A. Ristau, Susan Riemer Sacks

Adjunct Assistant Professors: Lynn Aronson, Jacqueline Fleming, Patricia Kenny, Suzanne Page, Sandra F. Stingle, Patricia Stokes, E'mett Williams

Psychology is the study of behavior and experience, and therefore of a diversity of phenomena, from love to aggression, from the first babbling of infants to creative intellectual behavior, from sexual behavior to the mechanisms of taste. Faculty members in Psychology have a wide range of research interests, including social and cognitive development, memory, sexual and parental behavior, animal learning, interpersonal behavior, the self-concept, and the resolution of conflict.

Common to all areas of psychology is a concern with adequate and appropriate method. The student will encounter many perspectives on psychological evidence and technique through lecture, laboratory, field courses, and other offerings.

Opportunities are available for supervised research, teaching, and field experience. Independent study and the Senior Seminar involve participation in research with a faculty member. The Toddler Center and a course in Field Work in Psychological Services also provide first-hand contact with the study of psychology.

The department sponsors a Psychology Club.

Psychology as a major is good preparation for many careers. Many majors enter graduate school in psychology, neurosciences, education, and professional schools, including medical, law, and business schools. There is no set sequence for a major with a given career goal, but the department recommends a balance between courses that are directly preparatory and those which establish a broad intellectual foundation.

Science requirement: Students desiring to fulfill the science requirement through psychology are encouraged to take their lab courses in their early years at Barnard, because seniors do not receive priority in lab placements. To ensure exposure to different methods in psychology, the two lab courses will be drawn from different groups in psychology. See the description of lab groups under *Requirements for the Major*.

Students should preregister for courses in April and November for the following semester. Preregistration information is available in Room 415 Milbank.

A laboratory fee of \$30 is charged for each laboratory course: BC 1105, BC 1108, BC 1117, BC 1123, BC 1127, BC 1130, BC 1136, and BC 1156.

Students interested in Biopsychology should consult page 101.

REQUIREMENTS FOR THE MAJOR

The student majoring in Psychology is exposed to the diversity of the discipline through the required core courses and the selection of appropriate electives.

Eight courses in psychology (of which two must be lab courses) and three courses in related disciplines are required for the major. Six of the eight required psychology courses must be taken at Barnard College. Statistics cannot be taken during the summer. Students who have passed the Advanced Placement exam with a score of 4 or 5 are exempt from BC 1001 and receive 3 points of AP credit.

Students must take:

Psychology BC 1001	<i>Introduction to Psychology</i> (prerequisite for further psychology courses)
Psychology BC 1101	<i>Statistics</i> (preferably in the sophomore year)
Students must take one course from each group, of which two must be laboratory courses:	
Group A	
Psychology BC 1105 or 1107	<i>Psychology of Learning</i>
Psychology BC 1130 or 1132	<i>Human Learning and Memory</i>
Group B	
Psychology BC 1108 or 1110	<i>Perception</i>
Psychology BC 1117 or 1119	<i>Physiological Psychology</i>
Group C	
Psychology BC 1123 or 1125	<i>Psychology of Personality</i>
Psychology BC 1136 or 1138	<i>Social Psychology</i>
Psychology BC 1127 or 1129	<i>Developmental Psychology</i>

Three additional elective courses are required. Students may take more than one course in each group.

A maximum of two of the following courses may count toward the major: BC 3465, BC 3466, BC 3591, BC 3592, and BC 3599.

The three required courses in related disciplines should be distributed in this manner: one-year course sequence in a science, accompanied by a three-hour laboratory section (astronomy, biology, chemistry, environmental science, geology, or physics); and one course from the cognate disciplines (anthropology, computer science, economics, linguistics, philosophy, or sociology).

The eight required psychology courses must be taken for a letter grade. Students must earn a grade of C- or better in all courses used to fulfill the major requirements, including lab science and cognate courses.

The major examination consists of either the Graduate Record Examination in Psychology or satisfactory completion of Psychology BC 3591-BC 3592, *Senior Research Seminar*.

When in doubt the student should consult with her major adviser, whom she should select when she decides to major in psychology. The student should select the appropriate adviser by consulting with the administrative assistant or the chair.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor, including Psychology BC 1001, BC 1101 and one laboratory course. Two additional electives, excluding Psychology BC 3465-BC 3466, BC 3591-BC 3592, and BC 3599, are required. These electives may be selected from the Psychology Department course offerings. Three of the five psychology courses must be taken at Barnard.

COURSES OF INSTRUCTION

INTRODUCTORY COURSES

PSY BC 1001x,y Introduction to Psychology Introduction to the chief facts, principles, and problems of human and animal behavior, through systematic study of a text, lectures, exercises, reading in special fields, and brief participation in a current investigation. (An alternative to participation	can be arranged at the student's request.) —Staff <i>This course is prerequisite for all other Psychology courses. Enrollment is limited to 45 students per section. 3 points.</i>
PSY BC 1099x, y Science and Scientists Weekly meetings with researchers to discuss the nature of scientific inquiry in psychology; and intel-	

lectual, professional, and personal issues in the work of scientists. —Staff and guest scientists
Recommended for first- and second-year students.
Prerequisite: BC 1001 or permission of the instructor.
1 point.

CORE COURSES

PSY BC 1101x,y Statistics

Introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and common statistics. Recitation devoted to discussion of weekly problem assignments. —Staff
Prerequisite: BC 1001 or permission of the instructors. Enrollment limited to 35 students per section.
Preregistration.
4 points.

PSY BC 1105x Psychology of Learning

Basic methods, results, and theory in the study of how experience affects behavior. The roles of early exposure, habitation, sensitization, conditioning, imitation, and memory in the acquisition and performance of behavior are studied. Laboratory consists of experiments analyzing learning and memory in rats and humans.
—P. Balsam and assistants
Prerequisite: BC 1001. Enrollment limited to 60 students. Preregistration. Laboratory fee: \$30.
4.5 points. Lecture. Laboratory.

PSY BC 1107x Psychology of Learning

Same as BC 1105, but without the laboratory.
—P. Balsam
Prerequisite: BC 1001 or permission of the instructor.
Enrollment limited to 30 students.
3 points.

PSY BC 1108x Perception

Introduction to problems, methods, and research in perception. Discussion of psychological studies of seeing, hearing, touching, tasting, and smelling. In the laboratory, students conduct experiments and learn to report their findings. —R. Remez and Assistants
Prerequisite: BC 1001 or permission of the instructor.
Enrollment limited to 40 students. Preregistration.
Laboratory fee: \$30.
4.5 points. Lecture. Laboratory.

PSY BC 1110x Perception

Same as BC 1108, but without the laboratory.
—R. Remez
Prerequisite: BC 1001 or permission of the instructor.
Enrollment limited to 15 students.
3 points.

PSY BC 1117y Physiological Psychology

An introduction to the physiological bases of behavior: organization, connections, and functions of the nervous system; neural bases of sensory processing, motor control, feeding, drinking, sexual behavior, sleep, aggression, reward, learning, and memory. —Instructor TBA.
Prerequisite: BC 1001. Enrollment limited to 40 students. Preregistration. Laboratory fee: \$30.
4.5 points. Lecture. Laboratory.

PSY BC 1119y Physiological Psychology

Same as BC 1117y, but without laboratory.
—Instructor TBA.
Prerequisite: BC 1001. Enrollment limited to 20 students.
3 points.

PSY BC 1123x Psychology of Personality

Surveys the principal approaches to personality and their implications for personality development, psychological adjustment, and everyday behavior. In laboratory, students will participate in all stages of personality research: conceptualizing a personality construct, designing and administering tests, identifying individual differences, and carrying out a study. —B. Woike and Assistants
Prerequisite: BC 1001. Enrollment limited to 40 students.
4.5 points. Lecture. Laboratory.

PSY BC 1125x Psychology of Personality

Same as PSY BC 1123y, but without laboratory.
—B. Woike
Prerequisite: BC 1001 or permission of the instructor.
3 points.

PSY BC 1127x,y Developmental Psychology

Cognitive, linguistic, perceptual, motor, social, affective, and personality development from infancy to adolescence. Laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered.
—x: T. Klein; y: —Instructor TBA.
Prerequisite: BC 1001 or permission of the instructor.
Enrollment limited to 44 students.

*Preregistration. Laboratory fee: \$30.
4.5 points. Lecture. Laboratory.*

PSY BC 1129x,y

Developmental Psychology

Same as BC 1127, but without laboratory.

—x: T. Klein; y: Instructor TBA.

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 20 students.

3 points.

PSY BC 1130y

Human Learning and Memory

Survey of contemporary theories of human memory. Topics will include sensory, short-term, and long-term memory; levels of processing; organization; and encoding specificity. Special topics include eyewitness testimony, amnesia, implicit memory, and autobiographical memory. The laboratory consists of experiments related to these topics. —G. Musen and Assistants

Prerequisite: BC 1001. Enrollment limited to 40

students. Preregistration. Laboratory fee: \$30.

4.5 points. Lecture. Laboratory.

PSY BC 1132y

Human Learning and Memory

Same as BC 1130, but without laboratory.

—G. Musen

Prerequisite: BC 1001.

3 points.

PSY BC 1136y

Social Psychology

A survey of contemporary theory and research on social thought and behavior. Issues such as person perception, attitudes, attraction, aggression, stereotyping, group dynamics, and social exchange will be explored. The application of theory and research to addressing social problems will be discussed. —L. Heuer and Assistants

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 50 students. Preregistration.

Laboratory fee: \$30.

4.5 points. Lecture. Laboratory.

PSY BC 1138y

Social Psychology

Same as BC 1136, but without laboratory.

—L. Heuer

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 25 students.

3 points.

MIDDLE-LEVEL COURSES

PSY BC 2134x

Educational Psychology

Through a participative classroom model the major theories of human development and learning fundamental to the educative process are examined. Analysis of applications and implications of psychological knowledge for classroom teaching through observations in elementary and secondary school classes. Includes instructional models, motivation, teaching and learning strategies, evaluations, and gender issues. —S.R. Sacks
Prerequisite: BC 1001 or permission of the instructor.
3 points.

PSY BC 2141x,y

Abnormal Psychology

Introduction to the study of deviant and maladaptive behaviors such as childhood disorders, depression, schizophrenia, eating disorders, and mental retardation, focusing on scientific, philosophical, and sociocultural issues in the study of abnormal behavior and the relationship between diagnosis and treatment strategy. —Instructor TBA.

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 60 students.

3 points.

PSY BC 2151x

Organizational Psychology

Introduction to behavior of individuals and small groups in work organizations. Recent theory and research emphasizing both content and research methodology. Motivation and performance, attitudes and job satisfaction, power, influence, authority, leadership, cooperation and conflict, decision-making, and communications. —Instructor TBA.

Prerequisite: BC 1001. Enrollment limited to 45 students.

3 points.

PSY BC 2154x

Hormones and Reproductive Behavior

Biological basis of parental and sexual behavior from a comparative perspective. Complex relations among genetic, hormonal, environmental, and experiential factors in mediating sexual, parental, emotional, and feeding behavior. Aspects of biology and physiology necessary to understand those behavioral processes are covered in class and are not prerequisites. —R. Silver
Prerequisite: BC 1001 or Biology BC 1101, 1102.
Enrollment limited to 45 students.

3 points.

PSY BC 2158x
Human Motivation

Prerequisite: BC 1001.
3 points. Not offered in 1997-98.

PSY BC 2160x
Cognitive Psychology

Selected topics illustrating the methods, findings, and theories of contemporary cognitive psychology. Topics include attention, memory, categorization, perception, and decision making. Special topics include neuropsychology and cognitive neuroscience. —'97: G. Musen
Prerequisite: BC 1001. Enrollment limited to 20 students. Alternate years.
3 points.

PSY BC 2370y
Psychological Analysis of Racism

Psychological factors influencing the development and expression of racist attitudes and actions, with special reference to black-white relations. Psychodynamic studies of hostility, anger, self-contempt, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper. —J. Fleming
Prerequisite: PSY BC 1001 and permission of the instructor. Enrollment limited to 20 students.
4 points.

PSY BC 2371x
Psychology and Women

Selected topics examined from the perspective of different groups of women in Western society. Topics include gender differences on cognitive tasks, in personality and attitudes, and the contribution of differential power to gender differences; psychological aspects of some special female experiences (e.g., sexuality, menstruation, etc.) —L. Braine
Prerequisite: BC 1001, or, for Women's Studies majors, instructor's permission. Enrollment limited to 20 students.
4 points.

UPPER-LEVEL COURSES

PSY BC 3152y
Psychological Aspects of Human Sexuality

A survey and critical evaluation of research investigating psychological, biological, and social factors in human sexual behavior. Topics will include sexuality throughout the life span, sexual dysfunction, and cultural constructions of sexuality. —W. McKenna
Prerequisite: BC 1001 and two other psychology courses and permission of the instructor. Enrollment limited to 30 students. Preference given to seniors.
3 points.

PSY BC 3155x
Psychology and Law

A survey of the research on psychology as it relates to the legal process. Among the topics covered will be eyewitness identifications, jury decision-making, the insanity defense, rape trauma syndrome, capital punishment, and the death-qualified jury. Each of these problems will be considered from both a theoretical and an applied perspective. —L. Heuer
4 points.

PSY BC 3161y
**Introduction to the
Psychotherapeutic Process**

Exploration of concepts associated with the theory and practice of psychotherapy. A discussion of the history and evolution of psychotherapy in 20th-century America and Europe, along with evolving definitions of normalcy and psychopathology. Treatment orientations and modalities (include psychodynamic, interpersonal, behavioral), and basic concepts like transference, countertransference, regression, the analytic attitude, and defense and resistance will be discussed. —C. Parker
Prerequisites: BC 1001; and any two of the following courses: *Personality, Abnormal Psychology, Developmental Psychology, Human Motivation*; or permission of the instructor. Enrollment limited to 35 students.
3 points.

PSY BC 3164y
Perception and Language

Prerequisites: BC 1001 and one of the following: BC 1105, BC 1108, BC 1117, BC 1127, BC 1130, or equivalent. Enrollment limited to 20 students. Alternate years.
3 points. Not offered in 1997-98.

PSY BC 3166y
Social Conflict

Prerequisite: BC 1001 and one additional psychology course, or permission of the instructor. Enrollment limited to 20 students.
4 points. Not offered in 1997-98.

PSY W 3167y
History and Systems of Psychology

Development of the discipline of psychology in the last 100 years, examined in the context of significant events occurring in society and in other disciplines. Discussion of psychology as a profession and of the major schools of thought: Structuralism, Functionalism, Behaviorism, Gestalt, Psychoanalysis, and Cognitive. —E. Hearst

Prerequisite: Open to juniors and seniors who have had BC 1001 and at least two other courses in psychology.
3 points.

PSY BC 3169x
Developmental Psychobiology

A discussion of the inherent and acquired factors in the organization of basic behavioral processes: mechanisms underlying anatomical and functional development of the nervous system, prenatal and postnatal environmental influences on behavior, development of perception and response mechanisms, and analyses of the development of motivated behavior (e.g., feeding, sex, learning). —P. Kenny

Prerequisites: BC 1001 and two other course in biology or psychology.
3 points.

PPS BC 3177y
Psychology of Drug Use and Abuse

An examination of the biological, psychological, and social factors that lead to drug use and abuse. A biopsychosocial model will be used to examine the behavioral effects of prescription, “over the counter,” and “street” drugs. Treatments, therapies, and theories of addictive behaviors will be explored. —E. Williams

Prerequisites: PSY BC 1001 (Intro). Enrollment limited to 30 students.
3 points.

PPS BC 3291x
Philosophy/Psychology Seminars: Issues in Human and Animal Cognition

What is the relation between language and thinking? How can we discern cognitive behavior in young children and non-verbal animals? Readings in cognitive ethology and in the philosophy of mind and language. —S. Larson, C. Ristau

Prerequisite: Philosophy or psychology course or permission of instructors.
4 points.

PSY BC 3372
Topics in Developmental Psychology

Recent work selected from a broad range of areas: infant behavior, perceptual and cognitive development, family structures, and socialization practices. —M. Crisafi

Prerequisites: PSY BC 1001 and two other psychology courses. Enrollment limited to 20 students.
4 points.

PSY BC 3372x
Comparative Cognition

Prerequisites: PSY BC 1001 and two other psychology courses. Enrollment limited to 20 students.
4 points. Not offered in 1997-98.

PSY BC 3373y
Health Psychology

A consideration of research on the interaction of biological, psychological, and social factors related to health and illness. Issues such as the relationship of stress to illness, methods of coping with illness and improving health, and the relationship between psychological factors and recovery from illness will be discussed. —B. Woike

Prerequisites: PSY BC 1001 and or equivalent, plus two more psychology courses (preferably BC 1117-19, BC 1136-38, BC 1123-25). Enrollment limited to 15 students. Permission of instructor required.
4 points.

PSY BC 3374y
Theories of Learning

Prerequisite: BC 1105 and junior or senior standing. Enrollment limited to 15 students.
4 points. Not offered in 1997-98.

PSY BC 3375y
Organization of Movement

Prerequisites: BC 1001 and one of the following: 1105, 1108, 1117, 1127, 1130, or 1136. Enrollment limited to 20 students.
4 points. Not offered in 1997-98.

PSY BC 3376y
Infant Development

Examines the development of the human infant from *in utero* through the first year of life, during which the framework for all subsequent development is established. The purpose is to critically examine infant perceptual, cognitive, and social capabilities, to become familiar with the techniques and methodologies employed to discover them, and to discuss the theories and future research required to understand them. —W. Fifer

Prerequisites: BC 1001 and BC 1127 or BC 1129. Enrollment limited to 20 students.
4 points.

PSY BC 3378x
**Females and Males:
A Psychobiological Perspective**

Prerequisites: BC 1001 and two other psychology courses.
4 points. Not offered in 1997-98.

PSY BC 3379y

Psychology of Stereotyping and Prejudice

Prerequisites: BC 1001 or permission of the instructor. Enrollment limited to 20 students.

4 points. Not offered in 1997-98.

PSY BC 3380y

Fundamentals of Neuropsychology

Exposition of research and theory in cognitive neuroscience through discussion of neurophysiological syndromes, including aphasia, amnesia, dyslexia, Alzheimer's disease, prosopagnosia, and cognitive components of Parkinson's disease, Williams syndrome. —G. Musen

Prerequisites: BC 1001 or permission of the instructor. Enrollment limited to 20 students.

4 points.

PSY W 4107y

Applications of Experimental Psychology

Prerequisite: Learning course and permission of the instructor. Enrollment limited to 15 students.

Offered every three years.

3 points. Not offered in 1997-98.

PSY W 4232y

Production and Perception of Language

Prerequisites: PSY W 2240, BC 2160, or BC 3164, or permission of the instructor.

4 points. Not offered in 1997-98.

RESEARCH AND FIELD WORK COURSES

PSY BC 3465x, 3466y

Field Work and Research Seminar: The Barnard Toddler Center

The Barnard Toddler Center provides the focus for field work and research in applied developmental psychology, an amalgam of developmental, educational, and clinical psychology.

Students assist one morning a week at the Center, make individual class presentations, carry out team research projects, and participate in a two-hour weekly seminar which integrates theory, research, and practice. —T. Klein

Prerequisite: BC 1127 and permission of the instructor. Permission should be requested in the Spring of the year preceding registration. Enrollment limited to 16 students. This is a two-semester course.

8 points.

PSY BC 3473y

Field Work Seminar in

Psychological Services and Counseling

Supervised field work (minimum of 7 hours per week) applying psychological principles to work and treatment in clinical, educational, medical, and other institutional settings. Seminar discussions of theoretical approaches to clinical problems and case materials. —S. Stingle

Prerequisites: Three psychology courses and permission of the instructor required during program planning the previous Autumn. Enrollment limited to 12 students; seniors are given priority.

4 points.

PSY BC 3591x, 3592y

Senior Research Seminar

Discussion and conferences on a research project culminate in a senior thesis. Each project must be supervised by a member of the department. Successful completion of the seminar substitutes for the major examination. —R. Silver

Open to senior psychology majors who submit a research proposal which has been approved by the course instructor and the project supervisor.

Prerequisites: BC 1101, a minimum of five other completed psychology courses, and permission of the instructor.

4 points.

PSY BC 3599x, 3599y

Individual Projects

Research projects planned in consultation with members of the department. —Staff

Open to majors on written permission of the department member who will supervise the project.

3 or 4 points.

QUANTITATIVE REASONING

Elliott Hall

854-1317/7172

This program is supervised by the Quantitative Reasoning Committee.

Senior Associate and Director of Information Technology: Jean Follansbee (Director)

Professor of Economics: Duncan Foley

Professor of Mathematics: David Bayer

Instruction in the Quantitative Reasoning Program is provided by regular members of the Barnard and Columbia College Faculty.

QUANTITATIVE REASONING REQUIREMENT

All entering students must take the Basic Math Skills test during their first week of matriculation. Students with scores lower than 11 out of 20 must take QUR BC 1001, *Basic Math Skills*, during their first year at Barnard before registering for any of the courses listed on page 36 that satisfy the Quantitative Reasoning Requirement. Basic Math Skills topics are arithmetic (including fractions, decimals, and percentages), exponents and logarithms, equations and graphs, and word problems.

In order to graduate, students must pass one of the courses listed on page 35 in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. These courses can count both toward a major or distribution requirement and for the Quantitative Reasoning Requirement.

Students may fulfill the Quantitative Reasoning Requirement by securing Advanced Placement or transfer credit for a course listed on page 35 or for an equivalent course. A student who fulfills the Laboratory Science Requirement in Chemistry, Physics, or Astronomy simultaneously satisfies the Quantitative Reasoning Requirement.

COURSES OF INSTRUCTION

Quantitative Reasoning courses assume that students know the basic math skills topics. QR courses introduce students to the use of computers but assume no previous computer experience.

QUR BC 1001x, y **Basic Math Skills**

Arithmetic (including fractions, decimals, and percentages), exponents and logarithms, equations and graphs, and word problems. Required for students who score below 11 out of 20 on the Basic Math Skills exam. Open to other students only with permission of the instructor. A student who wishes to select the P/D/F grading option or drop this course must do so by the fifth week of the section in which she is enrolled.

—Instructor TBA.

1 point.

QUR BC 1100x **Confronting Uncertainty: Probability and Statistics in the Real World**

Probability and betting on uncertain propositions. Bayes' Theorem and the consistent use of

evidence in forming opinions. The statistics of political polling, medical diagnosis and therapeutic research, public policy, and interpersonal relations will be explored using the power of the Mathematica programming system. —J. Lad
3 points.

QUR BC 1110y **Words, Codes, and Cryptograms**

An introduction to the use of mathematics in solving problems of data security. Basic techniques of secret communication and their historic applications. Recent innovations made possible and necessary by the revolution in information technology, including public-key cryptography, digital signatures, secure key exchanges, anonymous communication, and electronic cash. Students will practice designing, implementing, and analyzing secret communication methods with the use of the Mathematica programming system. —J. Lad
3 points.

Professors: Randall Balmer (Chair, Spring 1998 and 1998-99), John Stratton Hawley (Chair, Autumn 1997), Alan Segal

Assistant Professors: Elizabeth Castelli, Judith Weisenfeld, Angela Zito

Senior Lecturer: Celia Deutsch

Associate: Jana K. Reiss

Other officers of the University offering courses listed below:

Professors: Peter Awn, David Halivni, Gillian Lindt, Wayne L. Proudfoot, Robert Somerville, Robert A.F. Thurman,

Associate Professor: Mary McGee

Assistant Professors: Ryuichi Abe, Alexander Alexakis, Gurinder Singh Mann, Susan Shapiro

Instructor: Gary Tubb

Approaches to the study of religion are as diverse as the world's religious traditions themselves. The student of religion encounters men and women—and our courses give explicit attention to both genders—as they explore the boundaries of their perceptions of the real. The challenge of this encounter inspires our involvement in the academic study of religion, even as it leads us to examine and question the boundaries of our world views.

The inquiry into religious theory, practice, and institutional life demands a variety of methodological tools in addition to an integrating framework. The program in religion sponsored by the Departments of Religion of Barnard College and Columbia College offers a unique context and extensive resources for this interdisciplinary study. The areas of expertise of the religion faculty (philology and the interpretation of texts, philosophy of religion, sociology and anthropology of religion, the history of specific religious traditions, comparative religion) provide the prospective student with a clear picture of the range of specialization available.

Moreover, the larger University community provides training in a broad spectrum of disciplines related to the study of religion: the social sciences, humanities, arts, and the professions. Programs and institutes for specialized area studies —Middle East, Southern Asia, East Asia, etc.—explore in depth the linguistic, literary, and sociocultural milieus of a particular Eastern or Western religious tradition. Barnard and Columbia offer intensive training in the languages of the major religious traditions of the world: Arabic, Chinese, Greek, Hebrew, Japanese, Latin, Persian, Sanskrit and other Indic languages, and Tibetan, among others. Students are encouraged to take full advantage of these and other opportunities available throughout the University.

The Jewish Theological Seminary of America and Union Theological Seminary are located near the campus. Students are encouraged to use the resources they offer, including their world-renowned libraries.

All courses, except those limited to majors, satisfy the College's distribution requirements in the Humanities.

REQUIREMENTS FOR THE MAJOR

Program of study: To be planned with the departmental adviser, taking into account the educational aims of the student. A religion major is expected to acquire knowledge in at least three areas: (i) an acquaintance with the linguistic, social-scientific, historical, and philosophical theories and methods that concern the study of religion; (ii) an in-depth knowledge of one religious tradition; and (iii) a critical comparative understanding of the broad range of the world's religious phenomena, requiring some familiarity with all major world religions.

Courses: for the major, 10 courses in religion (for a minimum of 30 points) are required:

- (i) One of three basic introductory courses: Religion V 1001 *Introduction to the Study of Religion*, REL V 1101 *Introduction to Western Religions*, or REL V 1102 *Introduction to Asian Religions*.

- (ii) Two survey courses in the major religious traditions, one Western, one non-Western— V 2600 *Hinduism*, V 2607 *Buddhism: Indo-Tibetan*, V 2608 *Buddhism: East Asian*, V 2610 *Christianity*, V 2620 *Judaism*, V 2630 *Islam*, and V 2640 *Chinese Religious Traditions*.
- (iii) Five intermediate courses in the study of religion. One of these courses must be from a tradition or area substantially different from the tradition or area of main concentration, and one must be an advanced departmental seminar or colloquium different from the Junior's and Major's Colloquia. Where appropriate, selected courses offered in other departments may be applied toward the fulfillment of this requirement, subject to the approval of the religion adviser.
- (iv) The Juniors' Colloquium, Religion V 3799. Religion majors planning to study abroad in their junior year must take the required junior colloquium in their sophomore year.
- (v) The Senior Majors' Colloquium, V 3800 *Critical Issues in the Modern Study of Religion*.
- (vi) A Senior Essay prepared in consultation with a member of the department; the essay may be written in connection with Religion V 3901-3902 *Guided Reading and Research* and is taken into consideration when making recommendations to the Faculty Committee on Honors. Religion majors are also required to complete 12 points of courses in related departments.

It is strongly recommended that majors, especially those considering graduate work in religion, pursue the study of the language of one religious tradition, e.g., Arabic, Chinese, Greek, Hebrew, Latin, Sanskrit, among others, in addition to fulfilling the College language requirement.

REQUIREMENTS FOR THE MINOR

Program of Study: to be planned with the departmental representative, taking into account the educational aims of the student.

Courses: For the minor, five courses are required, including:

- (i) Religion V 1001 *Introduction to the Study of Religion*; Religion V 1101 *Introduction to the Study of Western Religion*, or Religion V 1102 *Introduction to the Study of Eastern Religion*.
- (ii) Two survey courses in the major religious traditions, with a Western/non-Western distribution.
- (iii) One departmental seminar or colloquium.

Note: A grade of C- or above is required for credit of major or minor requirements.

COURSES OF INSTRUCTION

For courses offered by other departments and the Graduate School of Arts and Sciences that bear upon the study of religion, students are urged to consult the appropriate bulletin. Some graduate courses are open to qualified undergraduates with the permission of the instructor.

INTRODUCTORY COURSES

REL V 1001x
Introduction to the Study of Religion
Introduction to theory and practice of religion, East and West: e.g., myth and ritual, reason and revelation, law and community, mysticism and religious organization. —G. Mann
3 points. I H

REL V 1101y
Introduction to Western Religions
The phenomenology of religious experience and the historical forms of religious life. The presup-

positions, data, and documents of the religions of the West. —C. Deutsch
3 points. I H

REL V 1102x
Introduction to Asian Religions
The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the East. —J. Hawley, A. Zito
3 points. I H

THE TRADITIONS

REL V 2600y
Hinduism

Central themes in Hinduism in their relation to Indian culture. Readings include original sources in translation. Visual material is emphasized.

—J. Hawley
3 points. II H

REL V 2607x
Buddhism: Indo-Tibetan

A historical introduction to Buddhist thought, scriptures, practices, and institutions. Attention given to Theravada, Mahayana, and Tantric Buddhism in India and Tibet. —R. Thurman

3 points. II H

REL V 2608y
Buddhism: East Asian

An introductory survey that studies East Asian Buddhism as an integral, living religious tradition. Emphasis is placed on the reading of original treatises in translation. Historical events are discussed in terms of their relevance to contemporary problems confronted by Buddhism. —R. Abe

3 points. II H

REL V 2610y
Christianity

Survey of the history of Christianity and of the social and ethical tensions which have informed its development. —R. Somerville

3 points. III H

REL V 2620y
Judaism

Historical overview of Jewish belief and practice as these have crystallized and changed over the centuries. Special attention to ritual and worship, forms of religious literature, central concepts, religious leadership and institutions, and Israel among nations. —A. Segal

3 points. II H

Islamic-Religion ISR V 2630y
Islam

Survey of Islamic institutions, ideas, and spirituality, their origin and development in formative and classical periods, and their continued evolution in a variety of cultural settings. —P. Awn

3 points. II H

REL V 2640x
Chinese Religious Traditions

The Chinese word for “religion” is “teaching.” We explore what Chinese people taught themselves about the person, the society, and the natural

world. Covers classic texts of Taoist and Confucian canon and their synthesis; Mahayana Buddhism; folk religion and its relation to the state; and the modern cult of Maoism. —A. Zito

3 points. II H

ADVANCED COURSES,
BY REGION OR TRADITION

AMERICAN RELIGIONS

REL V 3502x, 3503y
Religion and American Culture

A survey of American religion from colonization to the present, with an emphasis on the ways religion has shaped American history, culture, and identity. V 3502x: From colonization to the Civil War; V 3503y: From the Civil War to the present. —R. Balmer

3 points. I H

Religion-Sociology RSC V 3508x
Religious Cults in Contemporary American Society

3 points. III H

REL V 3755x
African-American Religion

Survey of the history of religion among Americans of African descent from slavery to the present. Major topics to be covered include the African background and the transmission of African cultures, religion under slavery, independent black churches, religion and race relations, and modern theological movements. —’98: J. Weisenfeld

3 points. III H

ANCIENT MEDITERRANEAN RELIGIONS

REL V 3240y
Graeco-Roman Religion

Survey of the religions of Rome and the Hellenistic East from the late 4th century B.C.E. to the early 4th century C.E. Topics will include myth and ritual, religion and the state, and mystery religions, among others.

3 points. III H

REL V 3412x
Gnosticism

Critical examination of recently discovered gnostic texts, situating them in their historical and cultural context in the ancient Mediterranean. Emphasis on problems of definition and close readings of individual texts in translation.

3 points. II H

ASIAN RELIGIONS

REL V 2601y**Philosophies of India**

—G. Tubb

3 points.

II H

REL V 3000y**Buddhist Ethics**

—R. Thurman

3 points.

II H

REL V 3593y**Hindu Ethics**

Examines Hindu perceptions of moral and social order (*dharma*) and how those perceptions have been codified into systems of religious law and custom. Attention to how ethical principles influence both legal and moral decision-making in past as well as contemporary situations using case studies. —M. McGee

3 points.

II H

REL V 3595x**Perspectives on the Feminine in Hindu Traditions**

Examines different aspects of the feminine as articulated and symbolized within Hindu religious traditions. Particular attention is given to the dominant ideology of the *pativrata* (the devoted Hindu wife) as depicted in Hindu texts and folklore and to questions about alternatives to and subversions of this ideal. —M. McGee

3 points.

II H

REL V 3603y**Taoism**

Historical introduction to Chinese Taoism; development of thought and literature (i.e., the *Tao Te Ching* and writings of *Chuang Tzu*); meditation and alchemy; translations of doctrine into folk belief and ritual; examination of contemporary study and practice. —A. Zito

3 points.

II H

REL V 3605x**Sikhism**

Focusing on the religious beliefs, literature, and history of the Sikhs, we will trace the development of Sikhism from its inception as a part of a large devotional (*bhakti*) movement to its modern manifestation as a powerful religious minority in contemporary India. —G. Mann

3 points.

II H

REL V 3613x**Japanese Religious Tradition**

A study of the development of the Japanese

religious tradition in the pre-modern period. Attention given to the thought and practices of Shintoism, Buddhism, and Confucianism, the interaction among these religions in Japanese history, and the first Japanese encounter with Christianity. —R. Abe

3 points.

II H

History-Religion HIR V 3820y**Religion and Society in Modern India**

4 points.

II H

REL V 3804y, Sec.14**Krishna**

The study of a single deity in the Hindu pantheon as illuminated in art, music, dance, drama, theological treatises, patterns of ritual, and texts both classic and modern. Special attention to Krishna's consort Radha, to Krishna's reception in the West, and to his portrayal on Indian television. —J. Hawley

4 points.

II H

REL V 3804y, Sec. 34**Tibetan Philosophy**

—R. Thurman

4 points.

I H

Asian Studies-Religion ASR V 3974y**Hindu Goddesses**

—R. McDermott

Prerequisite: One course in Indian culture or religion, or permission of the instructor.

4 points.

II H

Asian Humanities W 4029x, 4030y**Colloquium on Major Works of Japanese Thought**

—W.T. deBary

4 points.

II H

CHRISTIANITY

REL V 3202y**Introduction to the New Testament**

Critical study of the New Testament canon, including a brief survey of its cultural contexts, the historical reconstruction of the communities which produced it, and rhetorical/literary interrogations of individual texts. —E. Castelli

3 points.

III H

REL V 3402y**Early Christianity**

Examination of the competing currents within early Christianity, with emphasis placed on the literary and social expressions of Christian belief and identity. Topics to be covered include persecution and martyrdom, debates over authority and religious experience, orthodoxy and heresy, and

asceticism and monasticism, among others.
3 points. III H

REL V 3418y
Orthodox Christianity

A survey of Orthodox Byzantine Christianity from the early period (4th c.) to the fall of Constantinople in 1453. Examines those characteristics that distinguish Orthodox Byzantine Christianity from other Christian denominations and other aspects of this faith such as Orthodox Dogma, Tradition, Byzantine Church and State, and Byzantine Church institutions. —A. Alexakis
3 points. III H

REL V 3501x
Religion and Its Critics: 18th- and 19th-Century Religious Thought

Critics and defenders of religious belief and practice. Readings include Hume, Mendelssohn, Kant, Schleiermacher, Seuerbach, Marx, Kierkegaard, and Nietzsche. —W. Proudfoot
3 points. III H

REL V 3530y
The History of the Papacy
—R. Somerville
3 points. III H

REL V 3803, Sec. 51
Mormonism in America
An exploration of the origins, historical development, and social transformation of Mormonism from a radical 19th-century sectarian movement to a 20th-century global religion. Special attention will be paid to issues of race, gender, and sexuality in Mormonism. —J. Reiss
Prerequisite: Permission of the instructor.
4 points. III H

REL V 3803x, Sec. 38
Issues of Gender in Ancient and Medieval Christianity
An exploration of the function of gender in the construction of religious identity across Christianity's formative centuries. Consideration of the different function for male and female religious identity of factors such as the body and its appetites, power and renunciation, and authority and inspiration. —E. Castelli
3 points. III H

REL V 3804y, Sec. 56
Asceticism and the Rise of Christianity
Explores the paradox of renunciation and power in early Christianity. Traces the changing understanding of renunciation from the 1st to the 5th centuries C.E., and the changing languages by

which Christians signaled their allegiance to an otherworldly ideal despite increasing involvement in the secular realm.
3 points. III H

REL V 3804y, Sec. 53
Religion and Magic in Late Antiquity
An examination of the boundary Graeco-Roman cultures drew between religious and magical interactions with the supernatural. Emphasis will be placed on ancient sources (magical spells and recipes; descriptions of magicians and magical practices; polemics concerning magic and religion) and on modern theoretical treatments of magic.
3 points. III H

ISLAM
WMS V 3505x
Women, Islam, and Nationalism in the Middle East

—A. Najmabadi
3 points. II H

REL V 3635x
History of Sufism
3 points. II H

REL V 3803x, Sec. 36
Seminar on Classical Sufi Texts
—P. Awn
4 points. II H

JUDAISM
REL V 3201x
Introduction to the Hebrew Bible
Introduction to the literature of ancient Israel against the background of the ancient Near East. —A. Segal
3 points. II H

REL V 3210y
Judaism During the Time of Jesus
An introduction to the Hellenistic period of Jewish history with emphasis on sectarian movements and the emergence of rabbinic Judaism and Christianity as the two dominant religions of the West. —A. Segal
3 points. II H

REL V 3214y
Introduction to Talmudic and Geonic Literature
3 points. *Not offered in 1997-98.* III H

REL V 3310x
Peshat and Derash in the Jewish Tradition
The history of rabbinical interpretation throughout the ages, distinguishing between Biblical exe-

genesis and Talmudic exegesis with some reference to both Dead Sea Scrolls and early Christian Biblical expositions. —D. Halivni
3 points. III H

REL V 3315y
Law and Lore (Halakha and Aggadah) in the Jewish Tradition

Examines the differences between Halakha (the legal portion of the Talmud) and Aggadah (the more legal portion) with respect to both content and form. Special emphasis on selections from the Talmud and Midrash that reflect the intrinsic nature of these two basic genres of rabbinic literature. —D. Halivni
3 points. III H

REL V 3330x
The Beginnings of Jewish Mysticism

A study of biblical and Hellenistic foundations for Western mysticism—scriptural visions of God, apocalyptic literature, Graeco-Roman magic, and the merkabah mystical movement in Judaism. —A. Segal
3 points. III H

REL V 3338x
Jewish Ethics

—D. Shatz
3 points. III H

REL V 3349x
Jewish Family Law

An examination of Jewish marriage and inheritance law. A survey of legal obligations an individual owes, and the privileges she/he receives, from being a member of a family. —D. Halivni
3 points. Not offered in 1997-98. III H

REL 3352y
Issues in Modern Jewish Thought

3 points. III H

REL 3355y
Development of the Jewish Holidays

Focus on the sources and historical development of Jewish holidays. An attempt to trace historically how the holidays took on their present form and, whenever feasible, to emphasize the different modes of observance among different groups at different times. —D. Halivni
3 points. Not offered in 1997-98. III H

REL V 3360x
Jewish Liturgy

3 points. III H

ADVANCED COURSES:
COMPARATIVE STUDIES

Asian Studies-Humanities AHU V 3400x, y
Colloquium on Major Texts

—P. Anderer, I. Bloom, P. Cachia, W.T. deBary, R. McDermott, P. Rouzer
4 points. I H

Asian Studies-Religion ASR V 3772y
Perspectives on Evil and Suffering in World Religions

—R. McDermott
3 points. I H

REL V 3407x
Mysticism

An examination of primary texts from various traditions in light of contemporary theories of mysticism, addressing issues such as gender and authority. —C. Deutsch
3 points. I H

REL V 3513y
Philosophy of Religion

—W. Proudfoot
3 points. I H

Religion-Sociology RSC V 3720y
Sociology of Religion

3 points. I S

REL V 3780y
Religion and Social Constructions of Race

Examination of the influence of racial stratification on the religious experience of blacks and whites in the United States and South Africa. Topics include theological justification of slavery and apartheid and black resistance to racial domination through religious means. —J. Weisenfeld
3 points. I H

REL V 3799y
Juniors' Colloquium

An introduction to the comparative study of religion focusing on dominant approaches to the conceptualization, interpretation, and explanation of religious phenomena and on key issues relating to the methodologies appropriate to such investigations. —W. Proudfoot
Required of Religion majors in their junior year.
4 points. I H

REL V 3800x
Majors' Colloquium

Critical issues in the modern study of religion.
Topic: Ritual in Theory and Practice. An inquiry into the nature and function of ritual within a variety of religious and cultural contexts, with particular emphasis on different methodological approaches to ritual studies. Includes some field observation.
—A. Zito

Required for all senior majors.

4 points.

I H

REL V 3803x, Sec. 63
Religious Worlds of New York

An exploration of religious diversity in New York City with emphasis on the current historical moment. Meetings will focus on the impact of immigrant and migrant cultures on New York's religious landscape and on texts that explore the experiences and histories of religious communities in New York. Students conduct supervised research on and observation of a particular religious site or community. —J. Hawley, J. Weisenfeld

4 points.

I H

REL V 3804y, Sec. 30
Life After Death

A study of Western ideas of afterlife, concentrating on ancient literature. Readings will include Gilgamesh and other ancient Near Eastern literature, the *Bible*, *The Odyssey*, Plato's *Phaedo*, Apuleius's *The Golden Ass*. —A. Segal

4 points.

I H

REL V 3804y Sec. 37
Black Women's Religious Experiences

An examination of the religious experiences of black women through case studies of women in Africa, the Caribbean, Latin America, and the United States. Particular attention will be paid to the experiences of African-American women in both institutional and non-institutional arenas.

—J. Weisenfeld

4 points.

I H

REL V 3804y, Sec. 49
The Thought of Maimonides

A close examination of Maimonides major ideas, with emphasis on the relationship between law and philosophy; biblical interpretation; the nature of God; creation and providence; human nature; ethics and law; and human perfection. —D. Shatz

3 points.

III H

REL V 3804y, Sec. 52
Body, Gender, and Belief in China

An extended and historical exploration of the Chinese construction of basic categories like gender, body, family, and belief. The image of family and the position of women in the classics; factors in ritualist and Taoist notions of the body; and changes in the ideology of filiality over time; and analysis of secondary monographs with workshops on primary sources. —A. Zito

3 points.

II H

REL W 4550x
Religion and Region in North America

An examination of some of the regional variations of religious life in North America, with an emphasis on the interaction of religious communities with their surrounding cultures. —R. Balmer

Prerequisite: REL V 3502 or V 3503.

4 points.

I H

REL V 3---y
Religion and Film

An examination of relationships between religion and American film, with particular attention to interactions between American religious institutions and the film industry, issues of race and gender, and representations of religious beliefs, practices, individuals, and institutions.

—'99: J. Weisenfeld

3 points.

I H

- Professor:** Richard F. Gustafson (Chair)
Associate Professor: Catharine Nepomnyashchy
Senior Associate: Mara Kashper
Other officers of the University offering courses in Slavic:
Professors: Robert L. Belknap, Boris Gasparov, Robert A. Maguire
Associate Professors: Frank Miller, Cathy Popkin, Irina Reyfman
Assistant Professor: Vitaly Chernetsky
Adjunct Associate Professor: Myroslava Znayenko
Adjunct Assistant Professors: Anna Frajlich-Zajac, Peter Kussi
Lecturer: Valentina Lebedev

The Slavic Department at Barnard offers instruction in five Slavic languages and literatures, with special emphasis on Russian. The department insists upon a strong foundation in language study, because this best prepares students for future graduate study in literature, history, economics, or political science, as well as for careers in government, business, journalism, or international law.

The department offers a major and minor program in Russian, and for this purpose has an extensive array of courses designed to help the student obtain reasonable fluency in the spoken and written language, a reading ability adequate for interpreting texts of some difficulty, and a general knowledge of Russian literature and culture, especially of the 19th and 20th centuries.

Foreign Language Requirement for the degree: satisfactory completion of the second semester of the intermediate level course or any course above that level. Entering students should see Professor Frank Miller (708 Hamilton, 854-3941) for a placement examination: a sufficiently high grade will automatically fulfill the requirement; other students will be placed accordingly. Those who speak a Slavic language natively should consult with the department chair.

REQUIREMENTS FOR THE RUSSIAN MAJOR

Students must have completed two years of college Russian before entering the program. Prospective majors or minors should consult with the department chair as early as possible. A total of 11 courses are required for the major:

Usually taken in the second year:

Russian V 3220	<i>Nineteenth-Century Russian Prose</i>
Russian V 3221	<i>Twentieth-Century Russian Prose</i>

Usually taken in the third year:

Russian V 3331-V 3332	<i>Advanced Russian</i>
Russian V 3333-V 3334	<i>Introduction to Russian Literature</i>

Usually taken in the fourth year:

Russian V 3443-V 3444	<i>Fourth-Year Russian</i>
Russian V 3595	<i>Senior Seminar</i>

Plus two additional electives in literature.

Independent study with any of the faculty at Barnard and Columbia can usually be arranged, and study in Russia is possible as part of the major.

REQUIREMENTS FOR THE RUSSIAN MINOR

A total of five courses beyond the second year of Russian are required for the minor.

Russian Regional Studies

The major consists of four years of Russian language and a reading knowledge of Russian adequate for research in the Senior Seminar and eight courses distributed in the following subjects:

- Two courses in Russian or Soviet literature (in translation or in Russian);
- Two courses in Russian history;
- One course on Russia or the Soviet Union (history, geography, sociology, economics, literature in translation, or in Russian, etc.);
- One course in Soviet/post-Soviet politics; and
- Two semesters of a senior research seminar with research to be conducted predominantly in Russian language sources.

COURSES OF INSTRUCTION

RUSSIAN LANGUAGE

RUS V 1101x-1102y

Elementary Russian, I and II

Grammar, reading, composition, and conversation.
—Staff

Required: V1501- V1502. Homework includes listening to tapes available in the language laboratory. No credit is given for V 1101 unless V 1102 is satisfactorily completed. Enrollment limited. Students must sign up in the Columbia Slavic Department (HAM 708) prior to first class and register concurrently for the grammar lecture V 1501x-1502y. Departmental permission is required.
4 points.

RUS V 1101y

Elementary Russian I

Equivalent to V 1101x, but given in the Spring term. —Staff
4 points.

RUS V 1102x

Elementary Russian II

Equivalent to V 1102y, but given in the Autumn term. —Staff
Prerequisite: V 1101 or the equivalent.
4 points.

RUS V 1501x-1502y

Elementary Russian Grammar Lecture I and II

Required weekly grammar lecture for Russian. Must be taken concurrently with V 1101-V 1102.
—Staff
1 point.

RUS V 1501y

Elementary Russian Grammar Lecture I

Equivalent to V 1501x, but given in the Spring term. —Staff
1 point.

RUS V 1502x

Elementary Russian Grammar Lecture II

Equivalent to V 1502y, but given in the Autumn term. —Staff
1 point.

RUS V 1201x-1202y

Intermediate Russian I and II

Reading, composition, grammar review.
—V. Lebedev

Prerequisite: V 1102 or the equivalent. Enrollment limited. Students must sign up in the Columbia Slavic Department (HAM 708) prior to first class. Departmental permission required.
4 points.

RUS V 1201y

Intermediate Russian I

Equivalent to V 1201x, but given in the Spring term. —Staff
Prerequisite: V 1102 or the equivalent.
4 points.

RUS V 1202x

Intermediate Russian II

Equivalent to V 1202y, but given in the Autumn term. —Staff
Prerequisite: V 1201 or the equivalent.
4 points.

RUS V 3331x, V 3332y

Advanced Russian I and II

Emphasis on conversation and composition; reading and discussion of selected texts and videotapes; lectures, papers, and oral reports required. Conducted entirely in Russian. —M. Kashper
Prerequisites: Two years of college Russian and permission of the instructor. Enrollment limited.
4 points.

RUS V 3421x

Russian Phonetics and Intonation

Review of principles of phonetics and intonation

for advanced students. Intense drill for the development of correct speech habits. Attention to expressive reading and poetry recitation. Conducted entirely in Russian. —M. Kashper
Prerequisites: Three years of college Russian and permission of the instructor.
 2 points.

RUS V 3443x, V 3444y
Fourth-Year Russian I and II

V 3443: Systemic study of problems in Russian syntax; written exercises, translations into Russian, and composition. V 3444: Discussion of different styles and levels and language, including word usage and idiomatic expression; written exercises, analysis of texts, and compositions. Conducted entirely in Russian. —M. Kashper
Prerequisites: Three years of college Russian and permission of the instructor. Enrollment limited. The second term may be taken without the first.
 4 points.

RUS V 3998x or y
Supervised Individual Research

—Staff
Prerequisite: Departmental permission.
 2-4 points.

RUS W 4432x
Contrastive Phonetics and Grammar of Russian and English

Comparative phonetic, intonational, and morphological structures of Russian and English, with special attention to typical problems for American speakers of Russian. —F. Miller and Staff
Prerequisite: Four years of college Russian.
 4 points.

RUS W 4433y
Specific Problems in Mastering Russian
 The Russian verb (basic stem system, aspect, locomotion); prefixes; temporal, spatial, and causal relationships; word order; word formation. —F. Miller and Staff
Prerequisite: Four years of college Russian.
 4 points.

RUS W 4434x, W 4435y
Advanced Composition: The Writing of Expository Prose I and II

Practice in the varieties of critical writing. Development of vocabulary and syntactic structures appropriate for abstract discourse. Conducted entirely in Russian. —Staff
Prerequisite: Four years of college Russian.
 3 points.

RUS W 4910y
Literary Translation

A workshop in literary translation from Russian into English focusing on the practical problems of the craft. Students will spend the bulk of the semester working on the translation of a literary text and discussing their work in class.
 —'98: R. Belknap, '99: C. Nepomnyashchy
Prerequisite: Four years of college Russian or permission of the instructor.
 3 points.

RUSSIAN LITERATURE

RUS V 3333x, V 3334y
Introduction to Russian Literature, I and II

A close study in the original of representative works of Russian literature from Pushkin to Solzhenitsyn.
 —Staff
Prerequisite: Grade of B- or better in RUS V 1202 or permission of the instructor. For non-native speakers of Russian.
 3 points. III H

RUS V 3339
Masterpieces of Russian Literature: 19th Century

A close study, in the original, of representative works by Pushkin, Lermontov, Gogol, Turgenev, Ostrovsky, Tolstoy, Dostoevsky, Leskov, and Chekhov. —M. Kashper
Prerequisite: Native or near-native knowledge of Russian and permission of the instructor.
 3 points. III H

RUS V 3340y
Masterpieces of Russian Literature: 20th Century

A close study, in the original, of representative works by Andrei Bely, Sologub, Pasternak, Bulgakov, Nabokov, Olesha, Mandelstam, Anna Akhmatova, Solzhenitsyn, Abram Terts, and Brodsky. —I. Reyfman
Prerequisites: Native or near-native knowledge of Russian and permission of the instructor.
 3 points. III H

RUS V 3461
Pushkin

A close study, in the original, of the major works. Class discussion conducted in English.
Prerequisite: Three years of college Russian and permission of the instructor.
 3 points. III H

RUS V 3462y

Gogol

A close study, in the original, of the major works. Class discussion conducted in English.

—R. Maguire

Prerequisites: Three years of college Russian and permission of the instructor.

3 points.

III H

RUS V 3463

Tolstoy

A close study, in the original, of the major works. Class discussion conducted in English.

—R. Gustafson

Prerequisite: Three years of college Russian and permission of the instructor.

3 points.

III H

RUS V 3464

Dostoevsky

A close study, in the original, of the major works. Class discussion conducted in English.

—R. Belknap

Prerequisite: Three years of college Russian and permission of the instructor.

3 points.

III H

RUS V 3465

Russian Poetry of the 19th and 20th Centuries

A close study, in the original, of selected text from representative lyric poets, including Tiutchev, Fet, and Blok. Attention given to metrics, formal analysis of style and structure, and differential theoretical approaches to lyric poetry. —R. Gustafson

Prerequisite: Three years of college Russian and permission of the instructor.

3 points.

III H

RUS V 3466

Chekhov

A close study, in the original, of the major works. Class discussion conducted in English.

—C. Popkin

Prerequisite: Three years of college Russian and permission of the instructor.

3 points.

H

RUS V 3467

Twentieth-Century Prose Writers

A close study, in the original, of the representative Soviet writers, including Babel, Olesha, Zamyatin, and Andrei Bitov. Class discussion conducted in English. —R. Maguire

Prerequisite: Three years of college Russian and permission of the instructor.

3 points.

III H

RUS V 3468x

Russian Plays

A close study, in the original, of several representative Russian plays, with emphasis on problems of translation, literary technique, and dramatic presentation. Class discussion conducted in English. —R. Belknap

Prerequisites: Three years of college Russian and permission of the instructor.

3 points.

III H

RUS V 3595x

Senior Seminar

Topic: Russian cultural and literary myths.

Class reports culminating in a critical paper.

—I. Reyfman

Prerequisite: Senior major or permission of the instructor.

4 points.

RUS V 3596x, y

Supervised Individual Research

Supervised research culminating in a critical paper. —I. Reyfman

Open to senior majors, and permission of the instructor is required.

2-4 points.

RUSSIAN LITERATURE IN TRANSLATION

RUS V 3220x

Nineteenth-Century Russian Prose

The development of prose forms from Pushkin to Chekhov, including works by Lermontov, Gogol, Turgenev, Dostoevsky, and Tolstoy.

—R. Gustafson

A knowledge of Russian is not required.

3 points.

III H

RUS V 3221y

Twentieth-Century Russian Prose

Russian prose fiction from Symbolism to the present: including works by Bunin, Gorky, Bely, Zamyatin, Babel, Zoshchenko, Olesha, Bulgakov, Platonov, Nabokov, Pasternak, Solzhenitsyn, and Trifonov. —Instructor TBA.

A knowledge of Russian is not required.

3 points.

III H

RUS V 3222y

Tolstoy and Dostoevsky

Analysis of the major works of the two writers.

—R. Gustafson

A knowledge of Russian is not required.

3 points.

III H

- RUS V 3226**
Russian Culture:
The Soviet Experience and Beyond
 3 points. Not offered in 1997-99. III H
- RUS W 4006**
Modern Russian Religious Thought
 The concepts of God, man, nature, history, and culture. Readings from Chaadayev, Khomyakov, Solovyov, Fyodorov, Florensky, Bulgakov, Berdyaev, Shestov, Lossky, Frank, and others. The relationship to Eastern Christian thought and Western philosophy. —R. Gustafson
Knowledge of Russian is not required.
 3 points. III H
- RUS W 4010x**
Russian Women: Myth and Reality
 Exploration of the changing “image of woman” in Russia from the beginnings of Russian history to the present as reflected in literary texts, historical documents, art, and film. Special attention to the Soviet and post-Soviet periods and to the question of the relevance of Western feminist theory to Russia. —C. Nepomnyashchy
Knowledge of Russian is not required.
 3 points. Not offered in 1997-98. III H
- RUS W 4015**
Russian Drama from Pushkin to Chekhov
 3 points. Not offered in 1997-99. III H
- RUS W 4016x**
Russian Drama from Chekhov to the Present
 A survey of major works of Russian drama from Chekhov to the present. —R. Belknap
A knowledge of Russian is not required.
 3 points. III H
- RUS W 4025x**
The Russian Memoir
 —R. Belknap
 3 points. III H
- RUS W 4026y**
19th-Century Russian Opera: Musical and Literary Discourses
 —B. Gasparov
 3 points. III H
- RUS W 4033y**
The Making of Socialist Realism
 The major writers and literary developments of the period 1917-1934. Special attention to tracing the evolution of Socialist Realism out of the literary trends of the post-evolutionary period. —C. Nepomnyashchy
- A knowledge of Russian is not required.*
 3 points. III H
- RUS W 4034**
Literature, Politics, and Tradition After Socialist Realism
 3 points. Not offered in 1997-99.
- RUS W 4050y**
Post-Soviet Russian Literature
 —V. Chernetsky
 3 points. III H
- CZECH LANGUAGE AND LITERATURE**
- Czech W 1101x -W 1102y**
Elementary Czech I and II
 Essentials of the spoken and written language. Prepares students to read texts of moderate difficulty by the end of the first year. —Staff
 4 points.
- Czech W 1201x -W 1202y**
Intermediate Czech I and II
 Rapid review of grammar. Readings in contemporary fiction and nonfiction, depending upon the interests of individual students. —P. Kussi
Prerequisite: Czech W 1102 or the equivalent.
 4 points.
- Czech W 3333x**
Readings in Czech Literature I
 Extensive readings in Czech literature in the original, with emphasis depending upon the needs of individual students. —P. Kussi
Prerequisite: Czech W 1202 or the equivalent.
 3 points. III H
- Czech W 3998x, y**
Supervised Individual Research
 —Staff
Prerequisite: Departmental approval.
 2-4 points.
- Comparative Literature-Czech W 4030y**
Post-war Czech Literature
 —P. Kussi
A knowledge of Czech is not required.
 3 points. III H
- Comparative Literature-Czech W 4035**
The Writers of Prague
 —P. Kuzzi
 3 points. III H

SLAVIC

POLISH LANGUAGE AND LITERATURE

Polish W 1101x-W 1102y
Elementary Polish I and II

Essentials of the spoken and written language. Prepares students to read texts of moderate difficulty by the end of the first year. —A. Frajlich-Zajac and Staff

4 points.

Polish W 1201x-W 1202y
Intermediate Polish I and II

Rapid review of grammar; readings in contemporary nonfiction and fiction, depending on the interests of individual students. —A. Frajlich-Zajac and Staff

Prerequisite: Polish W 1102 or the equivalent.
4 points.

Polish W 3101x-W 3102y
Advanced Polish I and II

Extensive readings from 19th- and 20th-century texts in the original. Both fiction and nonfiction, with emphasis depending on the interests and needs of individual students. —A. Frajlich-Zajac and Staff

Prerequisite: Polish W 1202 or the equivalent.
4 points.

Polish W 3998x, y
Supervised Individual Research

—Staff

Prerequisite: Departmental approval.
2-4 points.

H

Polish W 4048y
Mickiewicz

—A. Frajlich-Zajac
3 points.

III H

Polish W 4050y
Contemporary Polish Poetry

—A. Frajlich-Zajac
A knowledge of Polish is not required.
3 points.

III H

SERBO-CROATIAN
LANGUAGE AND LITERATURE

Serbo-Croatian W 1101x-W 1102y
Elementary Serbo-Croatian I and II

Essentials of the spoken and written language. Prepares students to read texts of moderate difficulty by the end of the first year. —Staff
4 points.

Serbo-Croatian W 3333x-W 3334y
Readings in Serbo-Croatian Literature, I and II
Readings in Serbo-Croatian literature in the original, with emphasis depending upon the needs of individual students. —Staff

Prerequisite: Serbo-Croatian W 1102 or the equivalent.
3 points.

Serbo-Croatian W 3998x or y
Supervised Individual Research

—Staff

Prerequisite: Departmental approval.
2-4 points.

SLAVIC LITERATURE AND CULTURE

SLT W 4001x
Contemporary East European Literature

—V. Chernetsky
4 points.

III H

UKRAINIAN
LANGUAGE AND LITERATURE

Ukrainian W 1101x-W 1102y
Elementary Ukrainian I and II

Essentials of grammar, and basic oral expression, with emphasis on drills, reading, writing, and listening comprehension. Reading of simple texts, discussion of readings in Ukrainian. Conducted increasingly in Ukrainian. —M. Znayenko
3 points.

Ukrainian W 1201x-W 1202y
Intermediate Ukrainian I and II

Intensive rapid review of grammar, with some emphasis on conversational skills. Strong emphasis on reading/translating skills, using selections from contemporary Ukrainian periodicals. —Staff
Prerequisite: Ukrainian W 1102 or the equivalent.
3 points.

Ukrainian W 3998x, y
Supervised Individual Research

—Staff

Prerequisite: Departmental approval.
2-4 points.

H

Ukrainian W 4040
Twentieth-Century Ukrainian Prose
3 points.

III H

Ukrainian W 4050x**Contemporary Ukrainian Poetry**

A survey of the main movements in Ukrainian poetry, both in Ukraine and in the diaspora, since the 1950s, in the context of Ukrainian and world literatures. Lectures in English with some texts in Ukrainian. —Staff

Prerequisite: Reading knowledge of Ukrainian or fluency in another Slavic language.

3 points. III H

Ukrainian W 4060y**Cultural Currents and Their Political Context in 20th-Century Ukraine**

Survey of the major cultural currents in 20th-century Ukraine in the context of contemporary political developments, with emphasis on five separate fields: literature, film, theatre, music, and art. —Staff

Prerequisite: Reading knowledge of Ukrainian or fluency in another Slavic language.

3 points. III H

Ukrainian W 4070**Twentieth-Century Ukrainian Drama**

3 points.

Professor: Jonathan Rieder (Chair)

Assistant Professors: Lynn Chancer, Kelly Moore, Robert Smith

Adjunct Professors: Nathalie Friedman, Theresa Rogers

Other officers of the University offering courses listed below:

Professors: Mary Ruggie, Harrison White

Associate Professor: Hiroshi Ishida

Assistant Professors: Susan Lehman, Kathy Neckerman, Jeffrey Olick,
Francesca Polletta, P. Reed (Adjunct)

Sociology aims to uncover the theoretical principles that illuminate social life. In pursuing this goal, sociology exhibits a diversity of perspectives. This pluralism is one source of the discipline's vitality. Some scholars reach out to the sciences for their model of sociological inquiry; others look to more humanistic and historical endeavors for their inspiration and identity. But in all its different forms, the discipline as a whole strives to develop rigorous methods, both qualitative and quantitative, for analyzing social life.

Sociology involves more than the accumulation of theory and method for its own sake. Perhaps above all else, sociology is devoted to the exploration of actual social life in all its variousness. Thus it is that sociology majors examine the dynamic processes through which human beings express their social being: cooperation, conflict, power, exchange, morality, symbolism, domination, dependency, deviance, social control, and violence. Students also study the forms to which these processes give rise: social networks, small groups, face-to-face interaction, subcultures, families, gender divisions, religion, popular and high culture, social class, structures of race and ethnicity, bureaucracy, social movements, professions, and the state. The Barnard Department of Sociology tends to focus on these forms and processes as they unfold in the United States. At the same time, we seek to guard against provincialism by grounding our analyses comparatively and exploring the social life of less developed, developing, and other mature industrial societies.

There are no special admissions requirements or procedures. Students (majors and non-majors) are encouraged to consult with members of the department regarding their choice and sequence of courses. Combined and double majors may be arranged. In addition, the Columbia department offers a wide variety of sociology courses which are open to interested Barnard students.

REQUIREMENTS FOR THE MAJOR

The major prepares students for graduate work in sociology as well as in other disciplines; for professional schools (law, business, social work, journalism, urban planning); and for all occupations requiring general knowledge of society and social interaction as well as basic skills of social research.

A minimum of 10 courses is required for the major, including

SOC BC 1003	<i>Introduction to Sociology</i>
SOC BC 3082	<i>Junior Colloquium—Sociological Theory</i>
SOC V 3211	<i>Quantitative Methods</i> (not later than the junior year)
SOC BC 3087-BC 3088	<i>Individual Projects for Seniors</i>

and at least five other courses selected in consultation with the major adviser. Sociology BC 3211 should be taken no later than the junior year.

There is no major examination. To graduate, a student must complete, to the satisfaction of her instructor in BC 3087-BC 3088, a long paper involving some form of sociological research and analysis.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor in Sociology, including SOC BC 1003 and four courses to be selected in consultation with the Sociology adviser.

COURSES OF INSTRUCTION

SOC BC 1003y

Introductory Sociology

An introduction to the sociological imagination which focuses on group influences on the individual (conformity, social structure and personality, community and deviance); the institutional arrangements of class, gender, ethnicity, and bureaucracy; the role of social movements and technology in social change. —R. Smith
3 points. III S

SOC V 1205x, y

Evaluation of Evidence

A non-technical introduction to alternative strategies by which social science data are transformed into evidence for theoretical arguments. Discussion of the logic and procedures of social science research and standards for the critical evaluation of that research; the discussion is based on a careful reading and analysis of significant studies exemplifying the use of different kinds of social science data and methods (field observations, historical archives, surveys, and experiments). —x: S. Lehman; y: L. Wu
3 points. S

SOC W 2202x

Sociology's Historical Imagination: A Survey

How can we understand such major social forces as nationalism, Islam, and class conflict by combining historical analysis and sociological theory? Can these two disciplines take us further than either one alone? —K. Barkey
3 points. III S

Note: One introductory course in sociology is suggested as a prerequisite for all 3000-level courses.

SOC V 3013y

Women and Health

Analysis of changing perspectives on women's health status and their roles in the health sector. Topics include women's mental and physical health, contraception, pregnancy, childbirth, morbidity, and mortality examined in the context of social science theories and evidence. —T. Rogers
3 points. III S

SOC BC 3082y

Junior Colloquium: Introduction to Social Theory

The rise and transformation of modern society in the 19th and 20th centuries. "Classical" literature such as Marx, Durkheim, and Weber will be read. Selected topics: the relationship between individual, society, and polity; gender relations, class, and status relations; moral and instrumental action. —L. Chancer
4 points. III S

SOC BC 3087x-3088y

Individual Projects for Seniors

The instructor will supervise the writing of long papers involving some form of sociological research and analysis. —J. Rieder, K. Moore, R. Smith
Required of all senior majors.
4 points.

SOC BC 3115x

Feminist Theory

An analysis of the theoretical assumptions and political implications of liberal, radical, Marxist, and socialist variants of first- and second-wave feminist theory, including recent works in psychoanalytic and postmodern feminism. Also considers the implications of such feminist arguments for debates within contemporary and classical sociological theory. —Instructor TBA.
Permission of the instructor required. Enrollment limited.
4 points. III S

SOC V 3200y

Gender, Class, and Race

The critical role of gender, class, and race in social life, and their relationship to inequality, community, and culture. Focuses on reactions to and perceptions of difference in the spheres of family, work, sexuality, and politics. —L. Chancer
3 points. I S

SOC V 3206

Race, Culture, and Identity in the Contemporary United States

The impact of race on culture and identity, with emphasis on black-white relations: Is there a "great divide"?; affirmative action, individualism

and communalism; imagery of blacks and whites in art and entertainment; Afro-Caribbean/African-American differences; ethnicity and “white” culture: white backlash and racism; integration and black nationalism; the ambiguities of “crossover” culture; new immigration. —J. Rieder
3 points. I S

SOC W 3208y
The Sociology of Race

Combines a historical and sociological inquiry into the idea of race with an examination of how individuals and groups have interpreted, contested, negotiated, and transformed racial identities. Topics include: race and science; ethnicity, nation, and class-based models of racial formation; comparative racial classification systems; the civil rights and black power movements; racial identity and politics; race and class; rights and equality. —F. Polletta
3 points. I S

SOC BC 3904y
Music and Society: Calypso and Reggae

A study of calypso and reggae in their social context, emphasizing their functions as media for social, political, and cultural discourse.
—E. Edmonds
Open to sophomores and juniors.
3 points. I S

SOC V 3211y
Quantitative Methods

An introduction to statistical methods emphasizing their application to practical research problems. Topics include frequency distributions, cross-tabulations and correlation, basic concepts of probability, hypothesis testing, and the analysis of variance. Students will learn to execute basic statistical analyses on a personal computer. —K. Moore
3 points.

SOC V 3213x
Culture in Contemporary America

An analysis of the values and meanings that form American pluralism and the communities that create and consume culture. Examples come from popular and elite culture: American individualism, rhythm and blues, Christian fundamentalism, liberalism and conservatism, abortion politics, television, and film. A central focus is on race, ethnicity, and identity. —J. Rieder
3 points. S

SOC V 3216y
Organizations in Modern Society

An exploration of the growth of large organizations

in politics, business, government, and culture; the structure of the corporation; not-for-profit organizations (art museums, universities); organizational cultures; dilemmas of hierarchy, power, and alienation; the tension between organizations and democracy; left and right critiques of the organizational state. —K. Moore
3 points. III S

SOC V 3219y
Development and Social Conflict in the Third World

—P. Heller
3 points. II S

SOC V 3221x
Social Disorganization: Deviance and Social Control

A study of different theoretical approaches to deviance and an analysis of important empirical research on various forms of deviant behavior. Crime is considered within the broader context of social deviance. —P. Reed
3 points. S

SOC V 3222y
Criminology

Building upon theoretical perspectives studied in SOC W 3221x, theories and research relating to criminal behavior are examined. Topics include the comparative study of crime, juvenile delinquency, organized crime, and public policies to control and prevent crime. —P. Reed
3 points. S

SOC V 3225y
Sociology of Education

Social organization of education in the United States and its effects. Examines schools as agents of socialization: the contribution of education to social equality and inequality; schools as formal and informal organizations; teachers and students; and the politics of education, including case studies of desegregation, decentralization, and public versus private schooling. —K. Neckerman
3 points. III S

SOC V 3920x
Science and Society

The social factors that shape the practice of science, the development of knowledge, and the impact of both on society. Topics include the social construction of scientific facts; the institutional structure of the science world; feminist and other critiques of scientific “objectivity”; and the politics of research on AIDS, nuclear power, and race. —K. Moore
3 points. III S

SOC V 3228x

Sociology of Medicine

An analysis of illness and its management in contemporary society. Topics include social definitions of health and illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; social organization of the medical profession and of the hospital; problems and prospects of health delivery systems.

—T. Rogers

3 points.

III S

SOC V 3235y

Social Movements

Social movements and the theories social scientists use to explain them, with emphasis on the American civil rights and women's movements. Topics include theories of participation, the personal and social consequences of social movements, the rationality of protest, the influence of ideology, organization, and the state on movement success, social movements, and the mass media. —Instructor TBA.

3 points.

III S

SOC W 3238x

The Sociology of Everyday Life

Approaches to the study of culture through readings of the familiar "texts" of everyday life and the practices they reveal. Topics covered include food and cuisine manners, urban topography, gender, and popular culture. —P. Ferguson

3 points.

III S

SOC W 3240x

Introduction to Japanese Society

Japanese society and culture. Its background, development, and present status. The transformation of a non-Western, non-industrialized society into an advanced, modern industrial society. —H. Ishida

3 points.

II S

SOC BC 3250y

Sociology of Jewish Life in America

A sociological analysis of Jewish life in America since World War II. Educational, occupational, economic, and political patterns of American Jews; the American Jewish family; changing patterns of religious observance, affiliation, and assimilation; relations with other ethnic groups; American Jews and Israel; challenges to Jewish identity and continuity in American society. —N. Friedman

3 points.

III S

SOC W 3270x

Mass Media/Popular Culture

Contemporary forms of mass media and genres

of popular culture, including print and broadcast journalism, television, movies, popular literature, fashion, and music. Issues include the rise of mass society; the role of organizations and institutional environments in shaping the production of mass culture; the role of mass culture in producing and reproducing basic social categories, like racial and gender stereotypes; how the media shapes politics. —Instructor TBA.

3 points.

I S

SOC V 3275y

Health Care Crises: U.S. in Comparative Perspective

Health, illness, treatment, and the organization and delivery of care. Includes questions of social policy, such as differential distribution and utilization of healthcare, alternative forms of financing, and ethical issues in the use of technology. Examination of the changing relationships between consumers, providers, and payers of services. —M. Ruggie

3 points.

III S

SOC V 3310

Gender and Deviance

Examines how gender categories can bestow deviant status on women and men. Theories of deviant behavior are reinterpreted in light of new perspectives on gender. Proposed topics include sexuality (e.g., maternity norms, reproductive rights issues, diversity of sexual practices); mental illness; crimes by and against women; and cultural representations of gender. —L. Chancer

3 points.

III S

SOC V 3320y

Social Problems

A consideration of the historical evolution of American theories of social problems and the application of theoretical frameworks to specific problems such as poverty, homelessness, crime, and race- and gender-based discrimination.

—L. Chancer

3 points.

III S

SOC V 3324y

Poverty, Inequality, and Policy: A Sociological Perspective

An examination of poverty, the "underclass," and inequality in the United States. Part 1: The moral premises, social theories, and political interests shaping current debates about the poor. Part 2: A more concrete analysis of the lives of the poor and the causes of family breakdown, the drug economy, welfare, employment, and homelessness.

—R. Smith

3 points.

III S

SOC W 3331x
Creation and Career in Art Worlds

The arts and the social forces through which they are made. Explores how patrons and artistic organizations combine with audiences and informal networks of artists to provide resources (emotional, intellectual, and material support) necessary to artistic careers. Examines how social relations and cultural canons around artists affect the form and content of their art. —H. White
3 points. S

SOC V 3247y
The Immigrant Experience, Old and New

The immigrant experience in the United States. Topics include ideologies of the melting pot; social, cultural, and economic life of earlier immigrants; the distinctiveness of the African-American experience; recent surge of “new” immigrants (Asians, Latinos, West Indians); Proposition 187; and changing American views of immigration. —R. Smith
3 points. I S

SOC V 3555y
Sociology of Family Institutions

An examination of major theoretical frameworks and empirical research concerning the family. Analysis of the contemporary industrial family, with considerable attention to historical and cross-cultural materials. Some topics are courtship and mate selection; sex roles and sexuality; alternative family structures; parenthood and the changing status of children; the impact of class, ethnicity, and race on family life; social policy and the future of the family. —L. Chancer
3 points. III S

SOC V 3290x
Sociology of Youth

“Youth” as a biological condition, social construction, cultural phenomenon, and political status. Offers historical, political, and economic perspectives on youth drawing from sociological theory, ethnography, and students’ lived experience with an emphasis on popular culture. —D. Gaines
3 points. I S

SOC V 3900y
Blacks and Jews: A Sociological Perspective

The social, political, and cultural dynamics of black-Jewish conflict and communion. Topics include the Exodus narrative; the link in arts and entertainment; the rise and fall of the civil rights coalition; ethnocentrism and universalism; class, identity, and citizenship; explanatory limits of the categories “black” and “Jewish”. —J. Rieder
Permission of the instructor required. Prerequisite: SOC BC 1003, and another intro social science or cultural analysis course.
4 points. I S

SPANISH AND LATIN AMERICAN CULTURES

208 Milbank Hall

Chair: 854-2061
Language Coordinator: 854-5422
Faculty Administrative Assistant: 854-5417

Professors: Alfred Mac Adam, Mirella Servodidio (Chair), Marcia L. Welles
Assistant Professors: Isolina Ballesteros, Licia Fiol-Matta, Alessandra Luiselli
Senior Lecturers: James Crapotta (Language Coordinator), Agueda Rayo, Flora Schiminovich
Associates: Vilma Bornemann-Caraley, Ada Fuentes-Rivera

The Spanish major trains the student to express herself fluently in both oral and written Spanish. It provides her with an intellectual grasp of both the literature and culture of Spain and Latin America.

Foreign Language Requirement for the Degree: first-year students with prior training in Spanish who wish to satisfy Barnard’s foreign language requirement in Spanish will be placed in the appropriate language course on the basis of either their CEEB score or the pre-registration placement test administered by the Spanish Department. Students scoring 4 or above on the placement test will be exempted. All others must complete BC 1204. Transfer students should consult the department chair.

The Spanish Club facilitates joint faculty-student projects. The club sponsors discussion sessions and films and lectures by writers, artists, and visiting scholars.

REQUIREMENTS FOR THE MAJOR

Interested students should consult members of the department as early as possible in order to create a course of study suited to their particular interests. The Spanish Department also provides guidance for students interested in the Spanish subdivision of the Foreign Area Studies major. The Spanish Department actively encourages students to study abroad and may be consulted about these programs.

There are three majors available to prospective students in the department: **I. Language and Literature**, **II. Spanish Studies**, **III. Latin American Studies**. Each option requires a Senior Essay (BC 3999x or y *Independent Study for Majors*).

I. Language and Literature: This program emphasizes a knowledge of Spanish language and the literature of Spain and Latin America. The major consists of 11 courses.

The six required courses are:

- BC 3115
- BC 3121
- BC 3123
- BC 3125
- BC 3127
- BC 3999x or y
- Latin American Culture I
- The Literature of Latin America: From the Colonial Period to Modernism
- Spanish Literature in the Middle Ages and the Early Renaissance
- The Struggle of Two Spains
- Don Quijote
- Independent Study for Majors (thesis topic and adviser to be selected)

Five electives of (3 points each) are to be chosen from literature and culture courses at the 3000 level (in Spanish).

Requirements for the Minor: Six courses: BC 3121, BC 3123, BC 3127, and three electives (of 3 points each) from the language and literature options at the 3000 level (in Spanish).

II. Spanish Studies: This program emphasizes the literature, history, and culture of Spain. The major consists of 12 courses (eight within the Spanish Department, four within other disciplines).

SPANISH AND LATIN AMERICAN CULTURES

The five required courses are:

BC 3123	<i>Spanish Literature in the Middle Ages and the Early Renaissance</i>
BC 3124	<i>Literature of the Golden Age</i>
BC 3125	<i>The Struggle of Two Spains</i>
BC 3129	<i>The Culture of Spain</i>
BC 3999x or y	<i>Independent Study for Majors</i> (thesis topic and adviser to be selected)

Three electives of 3 points each are to be chosen from the Peninsular literature and culture courses at the 3000 level (in Spanish). BC 3004, Section 5 *Language and Film: Issues in Contemporary Spanish Cinema* and DAN BC 2558 *Evolution of Spanish Dance Style* are recommended.

Four courses are to be chosen from offerings in the Social Sciences or Humanities that relate to Spain and define a special field of interest (to be chosen in consultation with the major adviser). History BC 1011 and 1012 *Introduction to European History* are strongly recommended.

III. Latin American Studies: This program emphasizes the literature, history, and culture of Latin America. The major consists of 14 courses (eight within the Spanish Department; six within other disciplines).

The four required courses are:

BC 3115	<i>Latin American Culture I</i>
BC 3116	<i>Latin American Culture II</i>
BC 3121	<i>The Literature of Latin America: From the Colonial Period through Modernism</i>
BC 3999x or y	<i>Independent Study for Majors</i> (thesis topic and adviser to be selected)

Four electives of 3 points each are to be chosen from the 3000 level, two of which must pertain to specific regions of Latin America (BC 3143 *Literature of the Spanish Caribbean*; BC 3117 *Literature of the Southern Cone*; BC 3118 *Contemporary Mexican Literature*; BC 3119 *Literature of the Andes*; BC 3120 *Twentieth-Century Puerto Rican Literature*).

Six courses in the social sciences or humanities that pertain to Latin America and define a special field of interest (to be selected in consultation with the major adviser).

COURSES OF INSTRUCTION

LANGUAGE COURSES

(Enrollment is limited to 20 students per section; sign-up sheets are on the departmental bulletin board.)

SPA V 1101x-1102y

Elementary First-Year Course

An introductory course to Spanish as a vehicle for oral and written communication. Emphasis on speaking, listening comprehension, reading, and writing. Fundamentals of grammar. Tape recorder required for homework on audiotapes.

—Staff

4 points.

SPA BC 1103x

Intensive Review of Elementary Spanish

Course for incoming students whose score on the placement examination puts them between the beginning and intermediate levels. To be followed by BC 1203y. —Staff

4 points.

SPA BC 1203x, y

Intermediate Course, Part I

Further development of spoken and written communication skills. Review of grammar and syntax. Discussion and analysis of short literary texts. Some linguistic and cultural analysis of contemporary Spanish videos and films. —Staff
Prerequisite: V 1102 or BC 1103 or the equivalent.
4 points.

SPA BC 1204x, y

Intermediate Course, Part II

Review of more advanced grammar points. Readings, discussions, and analysis of important works by Latin American authors. Analysis and discussions of Latin American films. —Staff
3 points.

SPA BC 1207y

Intermediate Conversation

Designed to advance oral and listening proficiency and to increase vocabulary within a wide range of daily and contemporary topics.

Materials include readings, cassettes, and videotapes. Activities include role-playing, interviews, small group activities, and oral reports. Some visits to Hispanic cultural events in New York City will be required. —Staff

Recommended parallel: Spanish BC 1203, BC 1204.

Prerequisite: V 1101x-1102y or the equivalent. Not open to native speakers.

2 points.

SPA BC 1208

Spanish for Spanish-Speaking Students

Designed for native and non-native speaking Spanish-speaking students who have oral fluency beyond the intermediate level but have had no formal language training. Introduction to Spanish grammar with special emphasis on complex sentence structure and syntax. Writing, reading, and building new vocabulary. May be used to satisfy language requirement with permission of the instructor.

Prerequisite: Oral fluency.

3 points.

SPA BC 3003y

Advanced Oral and Written Spanish: Contemporary Issues in a Hispanic Context

Development of oral and written skills through contact with authentic written and video materials. Topics include values, gender, technology, politics, and diversity. Emphasis on advanced language functions: sustaining narration, expressing opinions, and hypothesizing. Weekly expository and creative writing assignments; final oral presentation. Required class visit to a Hispanic cultural event.

3 points.

SPA BC 3004x, y

Language and World View

Reinforcement and development of modern language skills through focused attention on contemporary sociopolitical issues of Spain and Latin America. Useful for students in Foreign Area Studies, Political Science, History, and Economics. *Enrollment limited to 20 students. Sign-up sheets on departmental bulletin board.*

3 points.

2. Special Issues in Contemporary Spain

Features films and readings from newspapers, magazines, and journals centering on the issues confronting contemporary Spain: the transition to democracy and modernization, terrorism, regional autonomy, feminism, and sexual identity. Readings, discussions, and papers designed to improve oral and written proficiency.

3. Hispanics in the United States

An investigation of the cultural and socioeconomic patterns of Hispanics in the United States; their participation in the world of entertainment, visual arts, and literature; and their struggle for political power. Reinforcement of oral and written Spanish. Films, newspaper and magazine articles, essays.

4. Lives of Creative Women in the Spanish-Speaking World

An investigation of the diversity of women's experience of the creative process. Poetry, essays, films, and paintings will be examined in their biographical and critical contexts. Works by and about: Sor Juana Inés de la Cruz, Frida Kahlo, María Luisa Bemberg, Gloria Anzaldúa, Rosario Castellanos, and others. Interviews with poets and artists. *Not offered in 1997-99.*

5. Language and Film: Issues in Contemporary Spanish Cinema

An examination and discussion of three recurrent themes in Spanish films of the last quarter century: childhood memories and the Civil War; the politics of gender and family; and alienation, addiction, and despair. Emphasis on the development of listening and speaking skills and vocabulary building.

6. Political Acts: Latin American Theatre in the 20th Century

Development of language skills through the study of some of the most representative plays in 20th-century Latin America. Focus on issues of cultural identity and pluralism, the role of women, tradition and change, race, politics, and repression. Works by Ariel Dorfman, Griselda Gambaro, and others. —F. Schiminovich
Active student participation and work in discussion groups expected.

3 points.

SPA BC 3096

Poetry Writing in Spanish

Writing of at least two original works of poetry in Spanish to be read and commented upon by the group. Varied assignments designed to explore the resources of language through free association, imitation, allusions, and similar techniques. Reading of contemporary Latin American women poets to provide a further context and enrich discussion. —A. Rayo

Prerequisites: Completion of language requirement or Spanish-speaking background and permission of the instructor.

2 points.

LITERATURE AND CULTURE COURSES

For non-majors, all courses will count toward the distribution requirement, Part A. All departmental courses are conducted in Spanish unless otherwise stipulated. The prerequisite for all literature and culture courses is satisfaction of the foreign language requirement in Spanish. Exceptions should be discussed with the instructor and the departmental chair.

INTRODUCTORY COURSES

(Enrollment limited to 15 students. Sign-up sheets on departmental bulletin board.) Designed to acquaint students with close reading of a limited number of major literary texts. Emphasis is on the analysis of language and genre and serves as a bridge between intermediate language courses and more advanced courses in literature and culture.

SPA BC 3109

Introduction to Literary Analysis

Instruction in techniques of literary analysis applied to works representing different genres. Development of a critical vocabulary. Analysis of style, structure, and content. Introduction to theories of criticism.
3 points. H

SPA BC 3110

An Introduction to Spanish Theatre

Analyses of the varied functions and forms of theatre in representative Spanish plays of the 17th through the 20th centuries: the *comedia*, the *entremés*, Romantic drama, the *esperpento*, surrealist theatre, absurdist comedy, and political satire. Authors include Cervantes, Lope de Vega, Zorrilla, Valle-Inclán, Lorca, Arrabal, and Ruibal.
3 points. H

ADVANCED COURSES

LATIN AMERICA

SPA BC 3115

Latin American Culture I

Latin American history, society, and art, from the time of the great Indian empires to the late 19th century.
3 points. III H

SPA BC 3116

Latin American Culture II: A Socio-historical Approach

A revisionist examination of Latin American history, politics, and society. From the aftermath of the Wars of Independence (1824-1880) to contemporary Latin America in the context of its modernization and dependency.
3 points. III H

SPA BC 3117

Literature of the Southern Cone: The Dialects of Fantasy and Reality

An examination of the literature of the Southern Cone — Argentina, Uruguay, Paraguay, and Chile; the tension between fantastic literature and literary realism. Readings include Borges, Casares, Ocampo, Onetti, Donoso, and Augusto Bastos.
3 points. III H

SPA BC 3118

Contemporary Mexican Literature: The Interplay of History and Narrative

A study of Mexican historical novels as meeting places for the rival discourses of history and narrative. Works by significant Mexican authors (Yáñez, Fuentes, Paz, Poniatowska, Pacheco, Ibarguenoitia, and Castellanos).
3 points. III H

SPA BC 3119

Literature of the Andes: Revolution and Identity

The region of the Andes (Colombia, Ecuador, Bolivia, Peru, and Chile) has produced great poets—Mistral, Neruda, and Vallejo—as well as extraordinary novelists, Donoso and Vargas Llosa. This course seeks to identify the essential traits of the region's literature and relate them to its tumultuous history.
3 points. III H

SPA BC 3112

Love and Eroticism in Contemporary Latin American Literature

An introduction to the artistic manifestations of love and eroticism and their relationship to social attitudes. Works by Gabriela Mistral, Vicente Huidobro, Neruda, Paz, Borges, Isabel Allende, Vargas Llosa, and García Márquez.
3 points. III H

SPA BC 3120

Twentieth-Century Puerto Rican Literature

A study of Puerto Rican authors (Ferré, Sánchez, Pedreira, Julia de Burgos, González, Marqués) and their interpretation of socio-historical development in Puerto Rico. The relationship of these texts to historical writing (e.g., Quintero Rivera), and the revisionist trend in Puerto Rican historiography.
3 points. *Not offered in 1997-98.* III H

SPA BC 3121

The Literature of Latin America: From the Colonial Period through Modernism

From the flowering of baroque literature during the colonial period, with special emphasis on the writings of Sor Juana Inés de la Cruz, to the renaissance of Spanish-American writing during

the period of modernism.

3 points.

III H

SPA BC 3122

Contemporary Latin American Short Fiction

Readings of short stories and novellas by established and emerging writers from Spanish America and Brazil. Defines the parameters of Latin American short fiction by exploring its various manifestations—fantastic literature, protest writing, satire, and realism. Among the authors to be studied will be: Machado de Assis, Borges, García Márquez, Ana Lydia Vega, Clarice Lispector, Silvina Ocampo, and José Donoso.

3 points.

III H

SPA BC 3136

Experimental Texts by Latin American Women

An analysis of experimental works by Latin American women in fiction, poetry, and drama, in order to uncover the relationship between women authors and foundational or *avant garde* movements such as *modernismo*, *vanguardias*, *surrealism*, *fantastic literature*, the so-called “boom,” and revolutionary literature. Special emphasis on the relationship between gender and writing.

3 points.

III H

SPA BC 3141

La Novéla del Boom, 1962-70

A close readings of the novels that place Spanish America in the mainstream of worldwide literary production during the sixties. Authors include: Fuentes, Cortázar, Cabrera Infante, Vargas Llosa, Puig, and Donoso.

Prerequisite: Permission of the instructor.

3 points.

III H

SPA BC 3143

Literature of the Spanish Caribbean

A study of works from the Spanish-speaking islands of the Caribbean, Cuba, the Dominican Republic, and Puerto Rico, in order to unravel the cultural traits, historical patterns, and politico-economic realities that these islands may or may not have in common. —L. Fiol-Matta

3 points.

III H

SPAIN

SPA BC 3123

Spanish Literature in the Middle Ages and the Early Renaissance

A consideration of how East meets West in the forging of a national ethos and culture. The presence of Christians, Moors, and Jews in Spanish literature from its origins to the early 16th century. Readings range from the epic mas-

terpiece *El Poema del Cid* to *La Celestina* by Fernando de Rojas. A consideration of art, music, and history. Visit to the Cloisters.

3 points.

III H

SPA BC 3124

Literature of the Golden Age

A study of the poetry, theatre, and narrative of a society in crisis, as Spain confronts both Islam and the Protestant north and deals with the problems of rural and urban decline. Authors include Cervantes, Lope de Vega, Tirso de Molina, and Calderón.

3 points.

III H

SPA BC 3125

The Struggle of Two Spains

A study of the conflicting ideologies and visions that shape the search for a national identity and ethos as reflected in 19th- and 20th-century writers like Larra, Galdós, Unamuno, Azorín, Baroja, Valle-Inclán, and Martín-Santos.

3 points.

III H

SPA BC 3126

Archetypal Patterns in Contemporary Women's Fiction

A consideration of the relationship between contemporary fiction by women and traditional archetypal configurations. The following categories of novels will be studied: the bildungsroman (initiation into adulthood); novels of enclosure (marriage and social involvement); novels of eros (the quest for sexuality); novels of rebirth (personal transformation). Authors studied will be Laforet, Martín Gaité, Tusquets, Alós, Moix, Montero, Riera.

3 points.

III H

SPA BC 3127

Don Quijote

A study of Cervantes' masterpiece, concentrating on the narrative models available to him and his own creation of the “Novel.” Readings also include selected *Novelas Ejemplares* and critical studies.

3 points.

H

SPA BC 3131

Civil War and Post-War Spain: Myth and Reality Through Film, History and Literature

Contemporary Spanish films serve as a point of departure for the study of the Civil War and Franco periods as both historical fact and myth. Includes an analysis of its representation in memoirs and literary works and its significance in light of Spain's recent political transformation.

3 points.

III H

SPA BC 3134

Marriage and Adultery in 19th-Century Spanish Fiction

A consideration of the conflicting interests of 19th-century society as represented through the themes of marriage and adultery: the desire for social stability vs. the potentially subversive drive for freedom and self-affirmation. The roles of women, class, culture, and religion emphasized in works by Galdós, Clarín, Caballero, and others.

3 points.

III H

SPA BC 3135

Buñuel, Lorca, Dalí: Explorations in Desire

A study of the impact of Freudian psychoanalysis and surrealist theory and practice on three major figures of early 20th-century Spain. The relationship between dream language and the poetic and visual rhetoric of desire will be studied in the plays and poetry of Federico García Lorca, the paintings of Salvador Dalí, and the films of Luis Buñuel.

3 points.

III H

SPA BC 3137

Spanish Literature from 1975: The Postmodern Discourse

A close reading of some of the most significant works and trends of post-Franco Spain in the light of postmodern theories. Readings will include works by Martín-Gaité, Vázquez Montalbán, Montserrat Roig, Lourdes Ortiz, J.J. Millás, Ana Rosetti, Paloma Pedrero, Antonio Gala, Almudena Grandes.

3 points.

H

SPA BC 3138

The Spanish Inquisition

A study of the cultural impact of the institution from its establishment and spread to the New World to its final abolition. Readings include Holy Office trials of heresy, witchcraft, and sexual deviation, the *Lazarillo de Tormes* and its expurgated version, as well as stories by Cervantes, Francisco Ayala, and Carme Riera. Visual materials include representations of *autos da fe* and etchings by Goya.

3 points.

III H

SPA BC 3150

The Deceived Husband: Passion, Perversion, and Death

An examination of the figure of the deceived husband in light of the honor code and the male fantasies that produce it. Readings include plays and short stories of the Golden Age (Calderón,

Lope, Cervantes, María de Zayas) as well as contemporary plays (Valle-Inclán and García Lorca) and film (Buñuel).

3 points.

III H

COURSES IN ENGLISH

SPA BC 3203

20th-Century Women Poets of the Americas: Kindred Voices

Cross-cultural themes, images, and poetics in women poets of North America and Latin America. Discussion topics include: the search for a matrilineal poetic ancestry; the revival of the goddess; the poetics of subversion. Emphasis on African American, Native American and Latina authors like Ntozake Shange, Sonia Sánchez, Mary Tallmountain. Also, Gabriela Mistral, H.D., Rosario Castellanos, Claribel Alegria, Adrienne Rich.

3 points.

I H

SPA BC 3204

Latina Literature

A study of fiction, poetry and prose (essayistic and autobiographical) written by Latinas in the United States. Topics include bilingualism and biculturalism; migration and crossing, "return" and "home"; community, culture, and nation; identity; and women's strategic positioning in the literary and political discourses of the Latino movement.

3 points.

I H

SPA BC 3205

Hispanic Gay and Lesbian Representations in the Literatures of the Americas

Lesbian and gay images and issues in literary and theoretical writings of Latin American authors and of the United States. Hispanic and North American constructions of homosexual/heterosexual and male/female forms of erotic desire; the relationship of politics, sexuality, and race. Authors included Puig, Arenas, Peri Rossi, Anzaldúa, and Moraga.

May not be taken with SPW BC 3135.

3 points.

I H

SPA BC 3264

The Boom: The Spanish American Novel, 1962-70

The writing that catapulted Latin America into the mainstream of world culture: Fuentes, García Márquez, Manuel Puig, Julio Cortázar, José Donoso, and Mario Vargas Llosa.

Prerequisite: For reading and writing in Spanish, satisfaction of language requirement and one SPA literature course. To receive major or Comparative Literature credit, readings and written work must be

done in Spanish. May not be taken with SPA BC 3141.

3 points. III H

SPA V 3265

Latin American Literature in Translation

A study of contemporary Latin American narrative; its origins and apotheosis. Readings include Machado de Assis, Borges, García Márquez, Puig, and others. —A. Mac Adam

3 points. I H

CPS 3010

Picaresque Narratives: The Discourse of Disorder

An investigation of the structures and ideology of the picaresque, with emphasis on the relationship between genre and gender, writing and authority. Readings include Petronius and Apuleius, the *Lazarillo de Tormes* and Francisco de Quevedo's *The Swindler*, Daniel Defoe's *Moll Flanders*, Kathy Acker's *Don Quijote*, and Isabel Allende's *Eva Luna*.

3 points. I H

FOR SPANISH AND PORTUGUESE COURSES AT COLUMBIA UNIVERSITY, CONSULT COLUMBIA UNIVERSITY BULLETIN.

Officers of the University offering courses in Statistics:

Professors: Graciela Chichilnisky, Christopher Heyde, Ioannis Karatzas, David H. Krantz (Psychology), Bruce Levin (School of Public Health), Shaw-Hwa Lo (School of Public Health), Paul Meier (Chair), Wei-Yann Tsai (School of Public Health), David Yao (IEOR)

Associate Professors: Melissa D. Begg (School of Public Health), Victor de la Peña, Guillermo Gallego (IEOR), Andrew Gelman, Daniel Heitjan (School of Public Health), Marianthi Markatou, Myunghee Paik (School of Public Health), Karl Sigman (IEOR), Christine Waternaux (School of Public Health)

Assistant Professors: Kani Chen, Jaksa Cvitanic, Xin Hua Liu (School of Public Health), Daniel Rabinowitz, Yongzhao Shao

Adjunct Associate Professor: Demissie Alemayehu

Adjunct Assistant Professor: Eva Petkova (School of Public Health)

Barnard Departmental Representative: Jaksa Cvitanic, x 42262

The Department of Statistics offers a wide range of courses in probability and statistics. Probability and statistics deal with phenomena involving uncertainty. Probability theory describes the behavior of given random systems, while statistical methods facilitate the discovery of hidden regularities in such systems from observed data. The department trains students to apply statistical methodology in their later careers in the biomedical or social sciences, business, engineering, etc., or to continue with graduate study in statistics, business management, operations research, and related fields. Members of the department are actively engaged in both theoretical and applied research. Students may not take both 1001 and 1111 for credit. Certain majors require 1111. Consult the respective major department.

REQUIREMENTS FOR THE MAJOR

All majors should consult the departmental representative regularly in planning their programs of study. The requirements listed below are special to this department and must be read in conjunction with the general requirements for the bachelor's degree. As a rule, no more than 12 points of transfer credit may be accepted toward the major.

A total of 13 courses are required for the major, including:

Mathematics V 1101, V 1102, and V 2010, or their equivalents

STAT-IEOR W 3600 or W4150, STAT-IEOR W 4105, Statistics W 3659 or W 4107, W4315, and W 3701

One approved course in computer science beyond the introductory level and four additional courses to be chosen with departmental approval from statistics, mathematics, computer science, or operations research, at least two of which must be statistics courses numbered above 4200.

A major examination set by the department must be passed in the senior year. By special permission, a Senior Project may be substituted.

REQUIREMENTS FOR THE MINOR

The minor in Statistics requires a minimum of six courses, five in statistics, including: W 3600 or W 4150, W 4105, W 3659, or W 4107, W 4315, and any statistics course numbered above 4200.

COURSES OF INSTRUCTION

STA W 1001x, y**Introduction to Statistical Reasoning**

Designed for students in non-quantitative fields. Probability concepts and basic theory of sampling distributions are used as aids to quantitative reasoning and data analysis, with illustrations drawn mainly from the social sciences. Problems of data quality and causal inference; graphical and numerical summaries of data; statistical modeling of relationships between variables; use of computer for data management, evaluation of models, and estimation of parameters. —x: M. Markatou; y: TBA.
Prerequisite: Some high school algebra.
 3 points.

STA W 1111x, y**Introduction to Statistics**

Designed for students in fields (such as economics) that emphasize quantitative methods. Probability concepts and basic theory of sampling distributions are used as aids to quantitative theory and data analysis, with illustrations drawn from the natural and social sciences. Problems of data quality and causal inference; graphical and numerical summaries of data; statistical modeling of relationships between variables; use of computer for data management, evaluation of models, and estimation of parameters. —x: Y. Shao; y: G. Chichilnisky
Prerequisite: High school mathematics through intermediate algebra. Enrollment limited to 35 per section.
 3 points.

STA W 1211x, y**Introduction to Statistics B**

Designed for students in fields that emphasize quantitative methods. Probability concepts and basic theory of sampling distribution are used as aids to quantitative reasoning and data analysis, with illustrations drawn from the natural and social sciences. Introduction to use of computers for data management, graph construction, evaluation of regression models, and estimation of unknown parameters. Topics of Statistics W 1111 are covered in greater depth. —M. Markatou
Prerequisite: Calculus I
 3 points.

STA-IEOR STI W 3600x**Introduction to Probability and Statistics**

Fundamentals of probability and statistics used in engineering and applied science. Probability: random variables, useful distributions, expectations, laws of large numbers, central limit theorem. Statistics: point estimations, confidence intervals; hypothesis tests, linear regressions,

ANOVA. —Instructor TBA.

Prerequisite: A working knowledge of calculus.
 4 points.

STA-IEOR STI W 3658x**Probability**

Fundamentals of probability theory. Distributions of one or more random variables. Moments. Generating functions. Functions of a random variable. Law of large numbers and the central limit theorem. —Instructor TBA.
Prerequisite: A working knowledge of calculus.
 3 points.

STA W 3659x, y**Statistical Inference**

Principles of statistical inference. Population parameters, sufficient statistics. Basic distribution theory. Point and interval estimation. Method of maximum likelihood. Method of least squares, regression. Introduction to the theory of hypothesis testing. Likelihood ratio tests. Nonparametric procedures. Statistical design theory. Applications to engineering, medicine, and the natural and social sciences.
Prerequisite: STAT-IEOR W 3600 or STAT-IEOR W 4105 or the equivalent.
 3 points.

STA W 3701x, y**Advanced Data Analysis**

Data analysis using a computer statistical package and selected exploratory data analysis subroutines. Topics include editing of data for errors, exploratory and standard techniques for one-way analysis of variance, linear regression, and two-way analysis of variance. Material is presented in case-study format. —D. Alemayehu
Prerequisite: A one-term introductory statistics course.
 3 points. Two hours of laboratory TBA.

STA C 3997x, y**Independent Research**

The student participates in the current research of a member of the department and prepares a report on the work. —Staff
Prerequisite: The permission of a member of the department. May be repeated for credit.
 3 points.

STA-IEOR STI W 4105x, y**Probability**

Fundamentals, random variables, and distribution functions in one or more dimensions; moments, conditional probabilities, and densities; Laplace transforms and characteristic functions. Infinite sequences of random variables; weak and strong

laws of large numbers; central limit theorem.

—x: V. de la Peña; y: I. Karatzas

Prerequisite: A working knowledge of calculus. Can be taken as the sole course by students needing a basic knowledge of probability or as the foundation for more advanced courses at the senior undergraduate or M.A. level.

3 points.

STA W 4107x or y Statistical Inference

—Instructor TBA.

This course is identical to STA W 3659.

3 points.

STA W 4109x Probability and Statistical Inference

—J. Cvitanic

Combined STA W 4105 and W 4107.

6 points.

STA W 4015y Statistics for the Social Sciences

Students will learn the elements of a statistical computing language and the use of standard statistical programs to explore and characterize social data from archival sources, field observations, surveys, and controlled experiments. —D. Krantz

Prerequisite: A one-semester Introduction to Statistics.

3 points.

STA-IEOR STI W 4150x, y Introduction to Probability and Statistics

Fundamentals of probability theory and statistical inference used in engineering and applied science. Probabilistic models, random variables, useful distributions, expectations, law of large numbers, central limit theorem. Statistical inference: point and confidence interval estimation, hypothesis tests, linear regression. —C. Heyde

Prerequisite: A working knowledge of calculus.

3 points.

STA W 4201 Advanced Data Analysis

—Instructor TBA.

This course is identical to STA W 3701.

3 points.

STA W 4220x, y Analysis of Categorical Data (PH 8120)

A thorough study of the fourfold table, with applications to epidemiological and clinical studies. Significance versus magnitude of associations, estimation of relative risk; matching cases and controls; effects, measurement, and control of misclassification errors; combining evidence from many studies. —x: Instructor TBA;

y: D. Rabinowitz

Prerequisite: PH 6104 and PH 6400 or their equivalents and permission of the instructor.

3 points.

STA W 4315x, y Linear Regression Models

Theory and practice of regression analysis.

Simple and multiple regression, including testing, estimation and confidence procedures, modeling, regression diagnostics and plots, polynomial regression, fixed effects ANOVA and ANCOVA models, nonlinear regression, multiple comparisons, collinearity and confounding, model selection. Geometric approach to the theory and use of the computer to analyse data will both be emphasized. —x: E. Petkova; y: D. Rabinowitz

Prerequisite: Probability and statistics at the level of W 4150 or W 4105 and 4107 taken concurrently, linear algebra, and calculus.

3 points.

STA W 4325x, y Generalized Linear Models

Topics include log-linear models for count data, analysis of ordered categorical data, analysis of continuous data where the variability increases with the mean, survival analysis, and model checking. —x: M. Paik; y: X. Liu

Identical to Public Health P 8121.

Prerequisite: STA W 4315

3 points.

STA W 4327y Design of Experiments (PH 8116)

Principles in the design and analysis of controlled experiments: Latin squares, incomplete block designs, crossover designs, fractional, factorial designs, confounding. —D. Heitjan

Prerequisite: PH 8111 or the equivalent and permission of the instructor.

3 points.

STA W 4335x Sample Surveys

An introductory course on design and analysis of sample surveys. The goals are to (1) learn how sample surveys are conducted and why these designs are used; (2) learn how to analyze survey results; and (3) be able to derive from first principles the standard results and their generalization. Design topics include simple random sampling, stratified sampling, systemic sampling, and cluster sampling. Analysis topics include post-stratification, ratio estimation, regression estimation, weighting, and Bayesian smoothing. We will discuss in detail surveys from areas including public health, social work, and opin-

ion polling, and other topics of interest to the participants. —A. Gelman
Identical to Public Health P8115.
 3 points.

STA W 4413x
Nonparametric Statistics

Statistical inference without parametric model assumption. Hypothesis testing using ranks, permutations, and order statistics. Nonparametric analogs of analysis of variance. Tolerance limits. Robust estimation. Introduction to sequential statistical procedures. Applications to quality control and clinical trials. —M. Markatou
Identical to Public Health P8115. Prerequisite: STA W 4107. Alternate years.
 3 points.

STA W 4415y
Multivariate Statistical Inference

Multivariate normal distribution; multivariate regression and analysis of variance; canonical correlation and tests of independence. Principal components and other models for factor analysis. Discriminant functions and the classification problem; cluster analysis. —M. Paik
Prerequisite: STA W 3662/4312
 3 points.

STA W 4419y
Decision Analysis

Bayesian decision analysis, decision trees, expected value, utility theorem and evaluation of utilities, subjective probabilities and calibration, Bayesian inference. Examples from public health, medicine, political science, economics, and operations research. —A. Gelman
Prerequisite: One semester of probability or the equivalent.
 3 points.

STA W 4437x
Time Series Analysis

—G. Chichilnisky
Prerequisite: STA W 4415 or the equivalent.
 3 points.

STA W 4543x
Survival Analysis

Survival distributions, types of censored data, estimation for various survival models, nonparametric estimation of survival distributions and related functions, comparison of two or more survival distributions, the proportional hazard and accelerated lifetime models for covariate data, regression analysis with lifetime data. —W.Y. Tsai
Prerequisites: STA W 4107 or the equivalent.
 3 points.

STA-IEOR STI W 4606x, y
Elementary Stochastic Processes

Review of elements of probability theory. Poisson distribution process. Exponential distribution. Renewal theory. Wald's equation. Introduction to discrete time, Markov chains, and applications to queuing theory, inventory models, branching processes. —x: Y. Shao
Prerequisite: Statistics-IEOR W 3658, Statistics-IEOR W 4105 or the equivalent.
 3 points.

THEATRE

507 Milbank Hall

854-2079, 2080

Fax: 854-1840

Professor: Denny Partridge (Chair, Alice B. Pels Professor of Theatre)

Assistant Professor: Claudia Orenstein

Senior Lecturer: Amy Trompetter (Director of the Minor Latham Playhouse)

Lecturers: Patricia Denison (English), Steve Friedman, Anita Loomis, Evert Sprinchorn

Associates: Patricia Hernandez, Alessandra Nichols, Joan Rosenfels

Theatre Manager: Kat Kavanagh

Technical Director: Ben Bush

The study of theatre at Barnard is the study of world theatre. We are part of that world. We recognize that theatre in all cultures borrows from other cultures and has analogues across time. A working knowledge of how theatre is and has been created and performed around the world is essential to the development of a theatre artist in the twenty-first century.

Every good work of theatre, every production and performance, reinvents the art form and reaffirms its value. What can theatre do that can be done **only** by theatre? How does our understanding of this ephemeral art contribute to our understanding of the world?

Theatre is the art form which brings together all the arts. The Barnard Theatre Department seeks to introduce students to the many aspects of theatre, separately and in combination, with equal respect for the theoretical and the practical. Theatrical production at Barnard is closely related to coursework: performance is the defining event of the art form. Courses in theatre history, drama, design, playwriting, dramatic literature, acting, directing, and critical theory all lead to an understanding of how live theatre is created and how it is experienced by both its makers and its spectators.

Theatre is the most social of the arts, and its successful realization requires collaboration among theatre workers and between spectator and performer. Students are required to collaborate in class and in production and to become conversant with several aspects of the work. There is also the expectation that students will participate fully as audience members for department productions.

We believe that theatre skills are life skills. Self-expression, improvisation, transformation, empathy, courage, and cooperation are learned as one studies theatre. History, literature, and psychology are among the many humanistic disciplines that theatre calls on as it brings new work to life. The means to make theatre can best be found, and the integration that the art form requires can best be taught, in a liberal arts setting.

REQUIREMENTS FOR THE MAJOR

The following requirements apply to students who begin the Theatre major in the fall of 1996 or later. Students who declared the major before this time can choose to remain with the major requirements as they have been outlined previously, or change over to the new major.

Students intending to major in Theatre should consult with the chair in their sophomore year or earlier to plan a program. Twelve courses and a senior project or thesis are required, as follows:

I. Drama and theatre history (6 courses as set forth below):

- A. Two of the following courses in Theatre History: THR BC 3150, 3151, or 3152
- B. Seminar in Drama, Theatre, and Theory, THR BC 3166
- C. ENG BC 3163 or BC 3164 or ETR 3136 *Shakespeare*.

Another course in Shakespeare may be substituted with the chair's permission.

- D. One course in Drama selected from: ETR 3135, ETR 3137, THR 3140, THR 3143, or THR 3831. Additional courses in Drama may be selected from offerings in English or

other world literature with the adviser's permission.

E. THR BC 3888 Senior Seminar.

NOTE: Either (C) or (D) above must be a seminar.

II. Theatre Practice (6 courses as specified below, to be taken in the following suggested sequence, when possible):

A. *World Theatre*: THR 2001

B. One course in theatre design: THR 3134, 3135, or 3136

C. One course in acting. This should be chosen from the wide range of offerings in the umbrella course THR BC 3004x, 3005y.

D. One course in directing; THR 3201 is recommended.

E. Two courses that continue work in one of these areas: acting, design, directing, or playwriting. These choices should be made in consultation with the major adviser. Courses in drama or theatre history/theory may be substituted with the chair's permission.

III. The senior Theatre major must complete a semester-long thesis course (3 points) either:

THR BC 3997 *Senior Project: Performance* **or**

THR BC 3998 *Thesis Course in History, Drama, Criticism*

COURSES OF INSTRUCTION

Please note that there is an 18-point limit on studio courses for non-majors. A major may take 24 studio points in Theatre and an additional six in another discipline for a total of 30 studio points. Theatre Department studio courses are THR BC 2003, THR BC 2004x, y, THR BC 2120, THR BC 3001-3006, THR BC 3122 *Rehearsal and Performance*.

THR BC 2001x

World Theatre

A practical exploration in the history and practice of world theatre through lecture-demonstrations, guest performances, and hands-on workshops in acting and design. Readings, scene work, and a final paper or project will be required. —A. Trompetter

Limited enrollment.

3 points.

I H

THR BC 2002x

New York Theatre

Students will attend performances of plays on and off-Broadway and at experimental theatres and performance sites throughout the city.

Written responses will be required, and reading assignments will include plays and dramatic criticism. Team-taught by the entire theatre faculty.

Lab fee: \$95.

3 points.

THR BC 2003x

Voice and Speech

Techniques of vocal production tailored to the individual problems and potential of the student.

Exercises for use in warm-up, relaxation, breathing, and rehearsal; daily work with poetry and dramatic texts. —J. Rosenfels

Recommended for students intending to focus on acting in the senior thesis. Enrollment limited to 14 students.

Instructor's permission required.

2 points.

THR BC 2004x, y

Movement for Actors

An exploration of the actor's physical performance. Classical and contemporary approaches to theatre movement. —A. Loomis

Recommended for students intending to focus on acting or directing in the senior thesis. Enrollment limited to 14 students. Instructor's permission required.

2 points.

THR BC 2120x

Technical Production

A general introduction to all aspects of working backstage. The class will break into crews for the creation of lighting, scenery, props, sound, costumes, and rigging, as well as for the stage management and running of the department season.

—B. Bush

3 points. *Plus crew assignment.*

THR BC 3004x, 3005y

Acting Lab

This is an umbrella course whose offerings will change each year. Some are narrow, some broad; all are designed with five objectives in common:

- To focus on a particular genre, playwright, or approach to live performance.
- To combine theory and practice. Each class

will have an ongoing balance of academic and on-one's-feet work throughout the term. Homework assignments will include scene preparation, reading, research, and both individual and group projects.

- c. To become aware of some of the many approaches to acting in world theatre, and to develop respect for this diversity.
- d. To explore the social and political context of the work at hand.
- e. To realize the integration required in all acting: ultimately, this is an acting course, and the end goal is what happens on stage.

The acting lab courses are intentionally non-sequential. Students come to the study of acting with widely varying talents and backgrounds. The mix of levels enriches the collaborative experience and offers greater flexibility for students.

No more than six courses can be taken from the Acting Lab/Advanced Acting Lab offerings during a student's Barnard career.

THR BC 3004x, 3005y **Acting Lab**

Auditions are required for all Acting Labs and will take place the night before classes begin each semester. Please check with the Theatre Department office for specific offerings and audition sign-up.

—S. Friedman, A. Loomis, D. Partridge, J. Rosenfels
Enrollment in each section is limited to 14 students.
3 points. Courses will rotate regularly and may include the following:

1. Acting American Naturalism

An eclectic approach to naturalistic acting techniques; an examination of performance practice through scene study. Emphasis will be placed on works by Williams, Miller, and others, and on American naturalism as a foundation for the exploration of other acting styles.

2. Acting the Avant-Garde

Intensive monologue and scene work, along with theoretical reading and discussion, exploring the particular performance skills needed for the experimental drama of this century, beginning with Jarry, and including Beckett, Artaud, Ionesco, Genet, Stein, and others.

3. Acting Brecht

Intensive scene work, along with theoretical reading, analysis, and discussion. Practical applications of the "alienation effect" and other Brechtian ideas.

4. Acting Chekhov

Scene study, improvisation, and character and monologue work from the plays and short stories

of Anton Chekhov. An examination of the artistic and social context of Chekhov's work, including the acting theories of Stanislavski and the politics of naturalism.

5. Acting Chinese Opera

Training in the four performance skills of Chinese Opera: song, speech, stylized movement/acting, and stage combat. Looks at Chinese Opera in its historical context in order to understand the nature of the performance tradition.

6. Acting Shakespeare

An exploration of character, language and action through sonnets, monologues, and scenes.

7. Acting Social Comedy

Improvisation and scene study from Roman farce, commedia dell'arte, Restoration comedy, and melodrama. Physical approaches to style and character; the handling of period props and costume; in-depth examination of dramatic texts.

THR BC 3006y **Advanced Acting Lab**

Special problems of performance. Requires extensive outside research, reading, scene work, and a final showing. —Staff
3 points. Audition required.

THR BC 3122x, y **Rehearsal and Performance**

Students take part in the full production of a play as actors, designers, or stage managers. Emphasizes the collaborative nature of production. Appropriate research and reading will be required in addition to artistic assignments. —D. Partridge, S. Friedman, A. Trompetter, and guest directors.

A studio course, subject to the cap on studio credit. Can be taken more than once for credit up to a maximum of 3 credits a semester. Will be graded. Students not wishing to take this course for credit may participate fully in departmental productions with the permission of the instructors. Permission of the chair required.
1-3 points.

THR BC 3134y **Lighting Design**

Focuses on both the technical and creative aspects of theatrical lighting design. Students will learn the role of lighting within the larger design and performance collaboration through individual and group projects, readings, hands-on workshops, and critique of actual designs. —B. Bush

Enrollment is limited to 14 students.

3 points.

THR 3135x

Intercultural Performance Design

An approach to designing for the theatre. Techniques of freehand drawing, drafting, painting and stage models, scene painting. Research of genres from ancient folk ritual to modernist performance art, including Western and Eastern theatre traditions. —A. Trompetter

Enrollment is limited to 12 students.

3 points.

THR 3136y

Costume, Mask, and Make-Up

Drawing the figure, rendering, script and character analysis. The exploration of make-up, fabric printing, mask making, line, shape, and color. Research in period styles, and costume construction from pattern making to tailoring. —A. Trompetter

Enrollment is limited to 12 students.

3 points.

THR 3166y

Drama, Theatre, and Theory

The recurrence and reformulation of issues central to dramatic and performance theory. Readings include classical and modern theorists and play texts from world literature. —E. Sprinchorn

Enrollment is limited to 16 students.

3 points.

III H

DRAMA SEMINARS

ETR BC 3135y

19th-Century Social Drama

Late 19th-century social drama in the context of earlier melodrama. The shifting relationship between the visual and the verbal in the theatre and its implications for social and theatrical change. Playwrights include Jerrold, Scribe, Taylor, Robertson, Ibsen, Pinero, Wilde, Shaw, and Robins. —P. Denison

4 points.

III H

ETR BC 3136y

Shakespeare in Performance

The dramatic text as theatrical event. Differing performance spaces, production practices, and cultural conventions promote differing modes of engagement with dramatic texts. We will explore Shakespeare's plays in the context of actual and possible performances from the Renaissance to the 20th century. —P. Denison

Enrollment is limited to 20 students.

4 points.

H

ETR BC 3137x

Restoration and 18th-Century Drama

Performance conventions, dramatic techniques, and cultural contexts from 1660 to 1800.

Playwrights include William Wycherley, Aphra Behn, Mary Pix, Susannah Centlivre, George Etherege, William Congreve, John Gay, and Richard Sheridan. —P. Denison

Enrollment is limited to 20 students.

4 points.

H

ETR BC 3140x

Women in Theatre

The female presence and image in drama, and an examination of women playwrights, directors, designers, and performers in a historical and international context. —C. Orenstein

Enrollment is limited to 20 students.

4 points.

H

THR BC 3143

Drama and Film

A study of international classic films which preserve historic performances and exemplify important aspects of drama. Assigned reading of plays and criticism related directly and indirectly to these films; weekly writing assignments.

—S. Friedman

Prerequisite: Sophomore standing. Preference given to Theatre majors. BC 2001 World Theatre recommended. Limited to 20 students.

4 points.

H

THR BC 3831

Japanese Theatre: Gender and Performance

A study of Japanese theatre in relation to gender issues within play texts and theatrical traditions. Theatre forms of Noh, Kabuki, Takarazuka, Shingeki, and Butoh will be examined.

—C. Orenstein

Prerequisite: Sophomore standing. BC 2001 World Theatre recommended. Limited to 20 students.

4 points.

II H

THR BC 3888x

Senior Seminar: Modern American Drama and Performance

Modern American drama in the context of theatrical exploration and cultural contestation.

Playwrights include Glaspell, Crothers, O'Neill, Odets, Johnson, Hurston, Hansberry, Williams, Hellman, Stein, Miller, Howe, Fornes, and Wong. —P. Denison

Enrollment is limited to 20 students.

4 points.

H

THEATRE HISTORY

THR BC 3150

Ritual and Performance

A study of the confluence of ritual and performance in Western theatre from its origins through the 17th century. Includes texts and traditions from ancient Greece and Rome, the European medieval world, the English and Italian Renaissance, the Spanish Golden Age, and the French neoclassic period. —C. Orenstein
3 points. III H

THR BC 3151

Performance and Society

A study of the relationship of performance and the social world in Western theatre from the 17th to the 20th centuries. Includes texts from the traditions of Restoration comedy and tragedy, sentimental comedy, romanticism, melodrama, the modern theatre, the avant-garde, and the epic theatre. —C. Orenstein
3 points. III H

THR BC 3152

Asian Performance

A study of major performance traditions of India, China, Japan, and Indonesia. Examination of theatre practice and a wide range of plays in the light of social and historical developments. —C. Orenstein
Limited to 20 students. Early sign-up recommended. Preference given to upper-class Theatre majors and to sophomores intending to major in Theatre.
3 points. II H

THR BC 3201y

Directing Laboratory

Approaches to staging a play, with an emphasis on physical, visual, and rhythmic techniques. Students will direct one short piece for public performance. —D. Partridge
Preference given to junior and senior Theatre majors. Enrollment limited to 18 students. Prerequisite: THR BC 2001 and permission of the instructor. A production crew is required for this course.
3 points.

THR BC 3202x

Advanced Directing

Students will work on a variety of scenes from the world theatre repertory. The director as designer and dramaturge. Directorial analysis, preparation, working with actors, and production planning. —D. Partridge
Enrollment is limited to 12 students. Prerequisite: THR BC 3201 and permission of the instructor.
3 points.

THR BC 3300y

Play Development

Student playwrights will create and develop original work both in and outside of class. Projects will culminate in performance; playwrights will be active participants in casting, design, and staging. —S. Friedman
Instructor's permission and writing sample required.
3 points. Not offered in 1997-98.

THR BC 3500x, y

Special Studies in Theatre

Special problems in theatre for writers, directors, and designers. —Staff
4 points.

THR BC 3997x, y

Senior Project: Performance

The student will direct, design, or write a short play which will be produced (according to departmental guidelines) in a Senior Festival. Collaboration is expected, and students will meet weekly with faculty and other seniors. A written proposal should be submitted in the Autumn term, and a final paper is required. Students wishing to do a thesis in acting will work as a group with a faculty or guest director on suitable dramatic material for performance. —Staff
Prerequisite: Appropriate coursework and substantial production experience, including a major crew assignment in the junior year. Enrollment is limited to senior Theatre majors. Combined and special majors may be considered under exceptional circumstances.
3 points.

THR BC 3998x, y

Thesis Course in History, Drama, and Criticism

The student will write a paper of substance according to departmental guidelines. Students will be expected to take part in group discussions with faculty and other students writing a senior thesis. —P. Denison, C. Orenstein
Prerequisite: THR BC 2120.
3 points.

THR BC 3999

Independent Study

—Staff
3 points.

This program is supervised by the Committee on Urban Studies:

Professor of Political Science: Demetrios Caraley (Janet H. Robb Professor)

Associate Professor of Urban Studies and Political Science: Ester Fuchs (Chair)

Professor of Anthropology: Paula G. Rubel

Assistant Professor of Economics: Linda Barrington

Officers of Instruction:

Assistant Professors of Political Science: Judith Russell, J. Phillip Thompson

Associate Professor of Urban Studies: William McAllister (Visiting)

Associate in History: Owen Gutfreund

The purpose of the Urban Studies Program is to develop understanding of the basic institutions, problems, and achievements of city life.

REQUIREMENTS FOR THE MAJOR

A major in Urban Studies can be taken only in conjunction with a concentration in one of the regular departments.

In order to major in Urban Studies, a student must fulfill the following requirements:

- A. **One course each in three of the following departments** dealing primarily with urban subject matter: Anthropology, Economics, History, Political Science, Sociology.
 - N.B.: If you are concentrating in one of these five departments, you can count one “A” requirement course to fulfill **also** your concentration requirement, e.g.:

Anthropology V 3100	<i>Anthropology of Urban Life</i>
Economics W 3228	<i>The Urban Economy</i>
History W 4673/W4674	<i>American Urban History</i>
Political Science V 3313	<i>American Urban Politics</i>
Sociology V 3324	<i>Urban Sociology</i>
- B. **One course** dealing primarily with urban subject matter from one department other than those list above (such as Art History, Education, English, Environmental Science, Psychology, or Urban Planning) **or** one quantitative/methodology course (such as Statistics, Computer Science, Urban Studies BC 3200 *Program Evaluation*, or a quantitative/methodological course in your concentration).
- N.B.: If you are concentrating in one of the departments listed above, you can count one “B” requirement course to fulfill **also** your concentration requirement.
- C. **Three or more courses in a concentration** in one of the participating departments as specified in the Urban Studies handout.
- D. In the junior year, **the two junior colloquia** in Urban Studies:

UST V3545	<i>Shaping of the Modern City</i>
UST V3546	<i>Contemporary Urban Problems</i>
- E. In the senior year, **two semesters of research seminar** in the department of concentration. For **Columbia College students**, either:
 - Urban Studies UST V 3994x-V 3995y *New York Area Undergraduate Research Program* **or**
 - Columbia College Urban Studies seminars. Consult your adviser.

The list of specific courses and of the departments that offer specializations for Urban Studies majors is available in the Political Science Department office. Appropriate courses can be substituted with the approval of Professor Fuchs.

There is no minor in Urban Studies.

COURSES OF INSTRUCTION

Colloquia

UST BC 3535y

Colloquium on Urban Administration and Management

Processes of administration and management of cities. Executive leadership, decision-making bureaucracy, budgeting, and personnel.

—Staff

Prerequisite: Political Science BC 3001 or V 3313, or the equivalent. Admission by application only.

Enrollment limited to 16 students.

4 points.

III S

UST BC 3537y

Workshop in Urban Administration and Management

Resources of New York City are utilized to gain first-hand experience of administrative and managerial processes through an unpaid internship of 8-10 hours per week. —Staff

Corequisite: Urban Studies BC 3535.

2 points. Hours by arrangement.

UST V 3545x-V 3546y

Junior Colloquia on Urban Studies

Autumn Term: Shaping of the modern city. An introduction to the historical process and social consequences of urban growth. Reading and discussion focus on origin and current status of urban problems. —O. Gutfreund

Admission by application only. Enrollment limited to 20 students.

4 points.

S

Spring Term: Contemporary Urban Problems. Problems that currently afflict urban areas and assessment of attempted solutions. Problems of urban development, housing, education, poverty, transportation, and health. —E. Fuchs

Admission by application only. Enrollment limited to 20 students.

4 points.

S

UST V 3994x-3995y

New York Area Undergraduate Research Program

An ongoing program that develops an original social research project from start to completion. This two-semester seminar deals with urban

poverty, politics, and antipoverty policy. Using New York City as a research laboratory and working under the guidance of the faculty coordinator, students learn many of the basic research tools used by social scientists. —J. Russell

Prerequisite: Junior or senior standing. Admission by application only. Participation is for two terms.

4 points.

III S

POS G 8232x

Colloquium on Urban Politics, Policymaking, and Administration

Politics, policymaking, and administration in large cities. Particular attention is given to urban social and economic problems and the federal government's role in urban studies; the resources, strategies, and tactics of selected officials and private influentials; and alternative futures of large cities. —D. Caraley

Prerequisite: POS BC 3001 or V 3313 and permission of the instructor. Admission by application only.

4 points.

III S

Course in Quantitative Methods

UST BC 3200x

Program Evaluation: Methods and Case Studies

An introduction to the approaches and methodology of program evaluation. Issues addressed: planning, program monitoring, process and outcome assessment, and benefit/cost critiques. Case studies will provide real-world examples of program evaluation techniques. Includes instruction on statistical techniques and computer software. Guest speakers will discuss urban programs in New York City in which they are involved.

—W. McAllister

Satisfies Quantitative Reasoning requirement.

Recommended prerequisite: POS BC 3001.

3 points.

Professor: Natalie B. Kampen

Associate Professor: Afsaneh Najmabadi (Chair)

Assistant Professors: Licia Fiol-Matta (Spanish), Laura Kay (Physics) Ruth McChesney (Biology), Angela Zito (Religion)

Senior Lecturer: James Crapotta (Spanish)

Lecturers: Leslie Calman (Political Science), Elizabeth Stewart (English)

Senior Associate: Quandra Prettyman (English)

Instructors: Martha Gever, Irena Klepfisz, Jennifer Montgomery, Chikwenye Ogunyemi, Alexandra Suh, Elizabeth Wiesen

Women's Studies is an interdisciplinary department for students who wish to explore the basic questions raised by recent scholarship on gender and its relation to other systems of cultural/political difference: race, class, ethnicity, and sexual orientation. Some of the issues touched on in these fields are: questions about the distribution of power, work, and resources in the U.S. and elsewhere; the symbolic representation of identity in literature, religion, and art; the redefinition of history through the study of gender, ethnicity, race, and class; the historical place(s) of lesbian lives; the notion of cultural roles for women and men; and the shape of political movements which take gender as an organizational basis.

Early in their sophomore year, students interested in the major should consult the chair or any faculty member teaching Women's Studies courses for a list of advisers and required courses in the disciplines of concentration.

Students also have the option of electing a joint or double major and have access to Columbia graduate courses, since some cover special areas not otherwise available at Barnard.

Complementing the Women's Studies Program, the Barnard Center for Research on Women maintains an extensive and expanding resource collection on women's issues. The Center also sponsors a variety of lectures and discussions devoted to the exploration of the relationship of feminist studies to traditional scholarship.

REQUIREMENTS FOR THE MAJOR

Majors in the department are trained in interdisciplinary research skills and usually focus their studies in one of two areas of concentration: humanities or social sciences/history. The major in Women's Studies is taken in conjunction with study in one of the other departments.

The requirements for the major are 14 courses, to be distributed as follows:

WMS V 3116	<i>Feminist Texts I: Wollstonecraft to Beauvoir</i>
WMS V 3117	<i>Feminist Texts II: Beauvoir to the Present</i>
WMS V 3112	<i>Colloquium in Feminist Theory</i>
or WMS V 3813	<i>Colloquium on Feminist Inquiry</i>
WMS V 3521-3522	<i>Senior Research Seminar</i>

Four other courses in Women's Studies (see listing below), three within the student's area of concentration (humanities or social science/history) and one in the other area (V 1001 may count in either area); and

Five additional courses in the department within the student's area of concentration. One of these five courses may be selected from a closely related department in the student's area of concentration.

The thesis, Women's Studies V 3521-3522, provides an opportunity for senior majors to engage in original interdisciplinary research and to bring to bear the theoretical emphasis of feminist scholarship on a particular area of empirical investigation. Further, in the senior seminar, majors have the opportunity to discuss methodological issues and problems of

research in a directed and supportive environment.

Special projects using the city's resources may be developed into term papers or incorporated into the senior essay. An extensive project under the sponsorship of at least two faculty members may be offered for course credits as Women's Studies BC 3599 *Independent Research*.

The Combined Major Option

The combined major option includes seven courses in Women's Studies to be distributed as follows:

- WMS V 3111 *Feminist Texts I*
- WMS V 3113 *Feminist Texts II*
- WMS V 3112 *Colloquium in Feminist Theory*
- or WMS V 3813 *Colloquium on Feminist Inquiry*

Four other courses in Women's Studies (see listing below), three within the student's area of concentration (humanities or social sciences/history) and one in the other area (V 1001 may count in either area).

The requisite number of courses in the combining field, to be determined by the chair of that department or program; and

Two terms of a senior seminar to be taken in one of the fields combined in the major. The senior essay shall be designed to integrate the two areas of inquiry.

The combined major should be planned early in the sophomore year.

No minor is offered in Women's Studies.

COURSES OF INSTRUCTION

WMS V 1001x
Introduction to Women's and Gender Studies
An introduction to the ways in which femininity and masculinity have been imagined in literature and constructed in culture. The new interdisciplinary scholarship on gender will be presented in works of literature, films, social science, and current theory. —L. Green, A. Zito
3 points. I H

WMS V 3116x,y
Feminist Texts I: Wollstonecraft to Beauvoir
The important contributions to the elaboration of feminist thought in the West, evaluated through critical discussion. Analysis of works by Mary Wollstonecraft, Anna Cooper, Radclyffe Hall, Emma Goldman, C.P. Gilman, Virginia Woolf, Nella Larsen, and others in an attempt to discover the roots of the contemporary feminist movement. —x: E. Castelli; y: K. Gravdal
Permission of the instructor required. Enrollment limited to 20 students.
4 points. III S

WMS V 3117x,y
Feminist Texts II: Beauvoir to the Present
Contemporary issues in feminist thought. A review of the theoretical debates on sex roles, feminism and socialism, psychoanalysis, language, and cultural representations.

—x: A. Najmabadi; y: L. Tiersten
Permission of the instructor required. Enrollment is limited to 20 students.
4 points. III H

WMS V 3112x
Colloquium in Feminist Theory
An exploration of the relationship between new feminist theory and feminist practice both within the academy and in the realm of political organizing. —A. Najmabadi
Prerequisite: Feminist Texts I or II and permission of the instructor.
4 points.

WMS BC 3115x
Workshop in Women's Organizations
An optional course corequisite with V 3112x. An opportunity to investigate feminist theory in practice through involvement in NYC organizations. —A. Najmabadi
Permission of the instructor and coregistration with WMS V 3112 required. Not open to Columbia students.
2 points.

WMS BC 3117y
Women and Film
A critical interpretation of film from a feminist perspective and exploration of the relationship of gender to the language of film. —J. Montgomery
3 points. I H

WMS BC 3120x

The Invisible Woman in Literature: The Lesbian Literary Tradition

An interdisciplinary exploration of the lesbian experience. —E. Wiesen

4 points. III H

WMS BC 3121x

Black Women in America

An examination of the experiences of African-American women from slavery through the present. Emphasis will be on the history and historiography of these experiences, as well as on critical issues facing African-American women today. —J. Weisenfeld

4 points. III H

Art History-Women's Studies AWS BC 3123y
Women and Art

A discussion of the methods necessary to analyze visual images of women in their historical, racial, and class contexts, and to understand the status of women as producers, patrons, and audiences of art and architecture. —N. Kampen

3 points. I H

WMS V 3122x

The Jewish Woman: Historical and Cultural Perspectives

Explores the international character of the Jewish people through the experiences of Jewish women and identifies issues, past and present, of concern to Jewish women as articulated by contemporary Jewish feminists. —I. Klepfisz

3 points. I H

WMS BC 3130x

Discourses of Desire: Introduction to Gay and Lesbian Studies

An investigation of who or what constitutes the subject(s) of gay and lesbian studies. Themes include the historical, methodological, and epistemological crisis points of essentialism/constructionism; thinking sexuality cross-culturally; gender versus sexuality; bisexuality and the binary regimes of hetero/homo and male/female; feminism and les/bi/gay liberation; community, identity, and differences; personal life and the politics of liberation; the place of feminism in les/bi/gay studies. —Staff

3 points. III S

Spanish-Women's Studies SPW BC 3135y
Reading for Difference: Lesbian and Gay Themes in Hispanic Literature and Film

Homosexual issues and images in major literary works and films of Spain and Latin America. Themes include the social construction of sexual-

ity, political contexts, gay and lesbian self-representation, homosexual desire, closeting and disclosure, and defining a gay poetics. Authors include Lorca, Goytisolo, Tusquets, Molloy, Peri Rossi, Puig, and Almodóvar. (Course conducted in Spanish.) —J. Crappotta

3 points. Not offered in 1997-99. III H

Spanish-Women's Studies SPW 3204x
Latina Literature

A study of fiction, poetry, and prose (essayistic and autobiographical) written by Latinas in the United States—Chicana, Puerto Rican, Cuban, and Dominican. Topics include: bilingualism and biculturalism; migration and crossing; community, culture, and nation; identity; the female tradition; childhood recollections; motherhood as practice and discourse; and the diverse locations of women. —L. Fiol-Matta

3 points.

Spanish-Women's Studies SPW BC 3205y
Hispanic Gay and Lesbian Representations in the Literature of the Americas

Lesbian and gay images and issues in literary and theoretical writings of Latin American authors and of Latino authors in the United States. Hispanic and North American constructions of homosexual-heterosexual and male-female forms of erotic desire; the relationship of politics, sexuality, and race. Authors include Puig, Arenas, Allende, Peri Rossi, Anzadúa, and Moraga. Readings and discussions in English. —J. Crappotta

3 points.

WMS V 3502y

Women and Science

History and politics of women's involvement with science. Women's contributions to scientific discovery in various fields, accounts by women scientists, engineers, and physicians, issues of science education. Feminist critiques of biological research and of the institution of science. —L. Kay

4 points. Not offered in 1997-98. III S

WMS BC 3504y

Gendered Controversies: Women's Bodies and Global Conflicts

A seminar investigating the significance of social, political, and cultural conflict centered on issues concerning women's lives. —Staff

4 points. I S

WMS BC 3505x

Women, Islam, and Nationalism

A historical survey of how concepts of woman/gender have defined religious and national commu-

nities in the Islamic Middle East. —A. Najmabadi
3 points. II S

WMS BC 3507y

Unheard Voices: African Women's Literature

Themes include the politics of the canon in Africa, the problems of language, post-colonial counter-discourse, the African-American continuum, and Third World and Western feminism. We will read African women's writing, including the novel, the short story, poetry, and drama. Authors include Flora Nwapa, Buchi Emecheta, Nawal El Saadawi, Miriam Tlali, Bessie Head, Alifa Rifaat, Molara Ogundipe-Leslie, Ama Ata Aidoo, Efua Sutherland, Aidoo, and Tess Onwueme. —C. Ogunyemi
4 points. II H

WMS BC 3508y

Asian-American Women's Literature

Exploration of selected texts written by Asian-American women from diverse backgrounds, focusing on issues such as identity, gender, generation, race, class, region, and language. —A. Suh
4 points. III H

PSW BC 3683y

The Politics of Family

The development of and debates about public policies and laws that relate to families in the United States. Issue areas include the creation of the modern welfare state; changing definitions of family and of the family's relationship to the state; the state's role in the care of children; the state's role in regulating sexuality and reproduction; governmental policies regarding work/family issues; and governmental policies regarding violence within the family. —L. Calman
4 points. Not offered in 1997-98. III S

WMS V 3521x, 3522y

Senior Seminar

Individual research in Women's Studies conducted in consultation with the instructor. The result of each research project is submitted in the form of the senior essay and presented to the seminar. —x: N. Kampen; y: E. Stewart
Prerequisites: BC 3111, BC 3112, or BC 3113, or permission of the instructor. Enrollment limited to senior majors.
4 points.

WMS BC 3599x,y

Independent Research

3 or 4 points. Hours and Instructor TBA.

English-Women's Studies EWS BC 3144y

Minority Women Writers in the United States

Literature of 20th-century minority women writers in the United States, with particular emphasis on works by Asian, Black, Hispanic, and Native American women. The historical and cultural as well as the literary framework. —Q. Prettyman
3 points. III H

WMS V 3813y

Colloquium on Feminist Inquiry

A survey of research methods from the social sciences and interpretive models from the humanities, inviting students to examine the tension between the production and interpretation of data. Students will receive first-hand experience practicing various research methods and interpretive strategies, while simultaneously considering larger questions of epistemology about how we know what we know. —K. Gravdal
4 points. III S

WMS BC 3901y

Freud's Women: Psychoanalysis, Femininity, and Feminism

4 points. Not offered in 1997-99. III S

WMS W 4300

Advanced Topics in Women's and Gender Studies

This seminar is directed toward students with previous work in feminist scholarship but is open to all majors. Topics will vary with the instructor and students should therefore check with the department each term. Fall 1997: Jewish American Women Writers. —I. Klepfisz; Spring 1998: Queer Pictures. —M. Gever
4 points. III S

PROJECTED COURSE

WMS BC 1003x

Introduction to Women's Health

An introduction to women's health across the life span; emphasizes the scientific basis of present knowledge. Combines study of biological with social and cultural influences on women's health through team-teaching and interdisciplinary approaches. —R. McChesney
3 points. I S

**WOMEN'S STUDIES COURSES
IN OTHER DEPARTMENTS AND
PROGRAMS**

There are too many courses offered in other departments to list here. Students should consult the departmental and program listings for course descriptions and the Department of Women's Studies at the start of each term for a complete listing.

FIRST-YEAR SEMINAR

First-year students interested in Women's Studies may wish to select their First-Year Seminar from the Women in Literature and Culture cluster. See page 163.

**COURSES OFFERED AT
REID HALL IN PARIS**

The following course is offered at Reid Hall in Paris. For additional information about the programs available, consult the *Reid Hall Programs Bulletin* available in 303 Lewisohn Hall.

***Women's Studies* WMS W 3550x, y
Women and Society in France**

Selected topics in the history of women from the Third Republic to the present. In 1996-97, the focus was on women artists in 20th-century France. —M.J. Bonnet
3 points.

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- Judith Shapiro, 1994, President of Barnard College and Dean in the University,
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- Elizabeth S. Boylan, 1995, Provost and Dean of the Faculty, Professor of Biological Sciences
A.B., Wellesley; Ph.D., Cornell University
- Flora S. Davidson, 1973, Associate Provost and Lecturer in Political Science
A.B., Barnard; M. Phil., Ph.D., Columbia
- Philip V. Ammirato, 1974, Ann Whitney Olin Professor of Biological Sciences
B.A., City College of New York; Ph.D., Cornell
- Howard Andrews, 1978, Adjunct Assistant Professor of Psychology
B.A., Richmond College; Ph.D., Rutgers
- Antonella Ansani, 1990, Assistant Professor of Italian
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- Gail Archer, 1988, Lecturer in Music and Director of the Barnard-Columbia Chorus
B.A., Montclair State College; M.A., University of Hartford;
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- Isolina Ballesteros, 1994, Assistant Professor of Spanish
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- Randall Balmer, 1991, Ann Whitney Olin Professor of Religion
B.A., Trinity; M.A., Trinity Divinity; M.A., Ph.D., Princeton
- Peter D. Balsam, 1975, Professor of Psychology and Samuel R. Milbank Chair
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B.A., Swarthmore; Ph.D., Harvard
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- Irene T. Bloom, 1988, Wm. Theodore and Fanny Brett de Bary and Class of 1941
Collegiate Professor in Asian Humanities
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- Benjamin Buchloh, 1994, Associate Professor of Art History
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- Elizabeth A. Castelli, 1995, Assistant Professor of Religion
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- Sally Chapman, 1975, Professor of Chemistry
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- James Crapotta, 1975, Senior Lecturer in Spanish
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B.S., University of Michigan; M.A., Ph.D., University of Kansas
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and Director of Pan-African Studies Program
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Ph.D. Drew University
- Margaret R. Ellsberg, 1988, Senior Lecturer in English
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- Sharon Everson, 1981, Senior Associate in Physical Education
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B.S., University of Michigan; M. Arch., Columbia
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B.S., State University of New York at Cortland; M.S., Massachusetts
- Donlin Foreman, 1996, Associate Professor of Dance
Buglisi/Forman Dance Company
- Claudine Frank, 1997, Senior Lecturer in French
B.A., Princeton; M.A., Ph.D., Harvard
- Richard M. Friedberg, 1968, Professor of Physics
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- Steve Friedman, 1994, Lecturer in Theatre
B.A., University of Minnesota
- Ester R. Fuchs, 1980, Associate Professor of Political Science
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- Ada G. Fuentes-Rivera, 1996, Associate in Spanish
B.A., M.A., University of Puerto Rico; M.A., State University of New York, Stony Brook
- William Alan Gabbey, 1992, Professor of Philosophy
B.S., Ph.D., Queen's University of Belfast
- Serge Gavronsky, 1960, Ann Whitney Olin Professor of French
A.B., M.A., Ph.D., Columbia
- Renée Geen, 1956, Professor of French
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- Sandra Genter, 1961, Professor of Dance
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- Mary Gordon, 1988, Millicent C. McIntosh Professor of Writing
B.A., Barnard; M.A., Syracuse
- Ellen M. Graff, 1983, Assistant Professor of Dance
B.S., California State University; M.A., California School of Professional Psychology; Ph.D., New York University
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B.S., Stanford; M.A., Ph.D., Harvard
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B.A., U. of Minnesota; M.S., Ph.D., U. of Wisconsin at Madison
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B.A., M.S., American University of Beirut
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B.E., M.E., Yale; M.A., Ph.D., Columbia
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- Anna Lehmann, 1996, Associate in French
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A.B., Barnard; M.A., Ph.D., Bryn Mawr
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B.A., M.A., Ph.D., Harvard
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B.A., Cornell University; M.A., Ph.D., The Johns Hopkins University
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B.A., Sichuan Institute of Foreign Languages, China; M.A., Institute of Foreign Affairs, Beijing; Ph.D., University of California, Berkeley
- Richard J. Lufrano, 1990, Assistant Professor of History
B.A., State University of New York at Binghamton; M.A., Ph.D., Columbia
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B.A., Universidad Nacional Autonoma de Mexico; M.A., Ph.D., University of New Mexico
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- Patricio Keith Moxey, 1988, Ann Whitney Olin Professor of Art History
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- Reshmi Mukherjee, 1997, Assistant Professor of Physics
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- Gail F. Musen, 1992, Assistant Professor of Psychology
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- Barbara Novak, 1958, Helen Goodhart Altschul Professor of Art History
A.B., Barnard; M.A., Ph.D., Radcliffe
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M.B., MC.H., D.P.H., University College, Dublin; M.Sc., Harvard
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B.S., University of Wisconsin; M.S., North Dakota State University;
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- Claudia Orenstein, 1996, Assistant Professor of Theatre
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B.S., Union College; Ph.D., Boston University
- Denny Partridge, 1994, Alice Pels Professor of Theatre
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- Thomas Perera, 1966, Adjunct Associate Professor of Psychology
A.B., M.A., Ph.D., Columbia
- Stephanie L. Pfirman, 1993, Associate Professor of Environmental Science
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A.B., Barnard; M.A., Columbia; Ph.D., Tufts
- Richard M. Pious, 1973, Professor of Political Science and Adolph S. and Effie Ochs Chair
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B.A., Colby; Ph.D., Columbia
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- Cary H. Plotkin, Senior Lecturer in English
B.A., Yale University; M.A., Ph.D., Columbia
- Jeanne S. Poindexter, 1991, Assistant Professor of Biological Sciences
A.B., Indiana University; M.A., Ph.D., University of California
- Laurie J. Postlewait, 1997, Lecturer in French
B.A., Southern Methodist University, M.A., Ph.D., New York University
- Anne Lake Prescott, 1959-62; 1963, Professor of English
A.B., Barnard; M.A., Ph.D., Columbia
- Quandra Prettyman, 1970, Senior Associate in English
A.B., Antioch
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- Agueda Pizarro Rayo, 1981, Senior Lecturer in Spanish
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- Gail Reiken, 1996, Lecturer in Physical Education
B.S., Brooklyn College; M.S., Pennsylvania State University; Ed.D., Teachers College, Columbia
- Robert Remez, 1980, Professor of Psychology
B.A., Brandeis; Ph.D., Connecticut
- Jonathan Rieder, 1990, Professor of Sociology
B.A., Harvard; Ph.D., Yale
- Daniel C. Robie, 1992, Assistant Professor of Chemistry
B.S., Reed College; Ph.D., University of Illinois
- Christian M. Rojas, 1997, Assistant Professor of Chemistry
B.A., University of Virginia; Ph.D., Indiana University
- Rosalind Rosenberg, 1984, Professor of History
B.A., Ph.D., Stanford
- Jane H. Rosenthal, 1952-55; 1971, Professor of Art History
B.A., Douglass; Ph.D., Columbia
- Abraham Rosman, 1966, Professor of Anthropology
A.B., City College of New York; Ph.D., Yale
- Nan Rothschild, 1981, Professor of Anthropology
B.A., Vassar; M.A., Columbia; Ph.D., New York University
- Paula G. Rubel, 1965, Professor of Anthropology
A.B., Hunter; Ph.D., Columbia
- Judith Russell, 1988, Assistant Professor of Political Science
B.A., M.A., M.Ph., Columbia
- Susan Riemer Sacks, 1971, Senior Lecturer in Education
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B.A., University of Paris I; B.A., M.A., University of Paris VII
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- Flora Schiminovich, 1977, Senior Lecturer in Spanish
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- Lars Trägårdh, 1994, Assistant Professor of History
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- Amy Trompetter, 1996, Senior Lecturer in Theatre
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- Mary Ellen Tucker, 1970, Systems Librarian
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- Judith Weisenfeld, 1991, Assistant Professor of Religion
A.B., Barnard; M.A., Ph.D., Princeton
- Marcia L. Welles, 1970, Professor of Spanish
A.B., Barnard; M.A., Middlebury; Ph.D., Columbia
- Margaret Werth, 1993, Assistant Professor of Art History
B.A., Boston University; M.A., Ph.D., Harvard
- Barbara A. Woike, 1995, Assistant Professor of Psychology
B.A., Cleveland State University; M.A., Ph.D., Michigan State University
- Nancy Worman, 1996, Assistant Professor of Classics
A.B., Barnard; M.A., Ph.D., Princeton
- Kimberly Marten Zisk, 1997, Assistant Professor of Political Science
A.B., Radcliffe; Ph.D., Stanford
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 Barry Ulanov, Ph.D., Litt.D., 1951-1988, Professor Emeritus of English
 Helen Bacon, Ph.D., 1961-1989, Professor Emerita of Classics
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 John Sanders, Ph.D., 1968-1989, Professor Emeritus of Geology
 Brigitte Bradley, Ph.D., 1962-1990, Professor Emerita of German
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Eva Miodownik Oppenheim, A.B., Senior Associate Director

Deborah Schupack, B.A., M.A., Editor, *Barnard Magazine*

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Cathy A. Pohl, J.D., Assistant General Counsel

Edna O. Ray, Administrative Assistant

Office of Admissions

Doris Davis, M.A., Dean of Admissions

Sarah Brice, B.A., Associate Director of Admissions

Karen Jean-Louis Hurtt, B.S., Associate Director of Admissions

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Sixto Fernandez, B.A., Office Manager, Facilities Services

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Ifill Antoine, Assistant Manager, Housekeeping

Vin Harkins, Manager, Maintenance Services

Mervyn Cooper, Supervisor, Housekeeping (Night)

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Aaron Schneider, Ph.D., Associate Dean of Studies and Senior Class Dean
Marjorie Croes Silverman, Ph.D., Associate Dean of Studies and Dean for Transfer Services
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Roberta Lupert, M.A., Learning Disabilities Specialist

Office of Financial Aid

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Susan V. Lee, B.A., M.A., Senior Associate Director
Karen Diamond, B.A., Associate Director
Ivan Santiago, B.A., Student Loan Officer
Beverly M. Christian, B.S., Information Officer

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Agnes Wilkie, M.D., Associate Director for Mental Health Services
Giselle Harrington, M.Ed., Associate Director for Health Promotion
Theresa O'Rourke, R.N., Head Nurse
Deborah Witzeman, B.A., Administrator

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Liberty Partnerships Program

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Malik Purley, B.A., Associate Director

Marilyn Reyes, Administrative Assistant

Office of Higher Education Opportunity Program

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Santa Arocho, B.A., Associate Director/Counselor
Akim Vann, B.A., Counselor
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Wollman Library

Carol Falcione, M.A., M.S., M.B.A., Director
Christina Bickford, M.S., Ed.M., Media Services Librarian
Karen Dobrusky, M.S., M.P.H., Reference Librarian
Cynthia Johnson, M.A., M.S., Reference Librarian
Tatiana Keis, M.S., C.A.L., Access Services Librarian
Jane Lowenthal, M.Ed., M.L.S., Archivist
Michael Elmore, M.L.S., M.P.H., Technical Services Librarian
Natalia Sonevytsky, M.S., C.A.L., Reference Librarian
Mary Ellen Tucker, M.S., C.I.M., Systems Librarian

Office of Information Technology Services

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Maureen Romagnoli, B.A., M.A., Associate Director for Academic Computing
Hyong-ki Lee, B.S., M.S., Associate Director for Network Systems
Ming Zhang, B.S., M.S., Database Support Specialist/Programmer
Ilona Juhasz, B.A., M.S., User Support Manager
Ken Liu, B.A., Network Support Specialist
Kathy Smith, Database Specialist

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Marybeth Kemm, Assistant Registrar

Patsy To, Assistant Registrar

Florrie Brafman, Academic Information Manager

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Sandra Johnson, B.A., M.Ed., Associate Dean of Student Life

Andrea Spungen, B.A., M.A., Program Coordinator, A.S.A.P.

Janet Alperstein, B.A., M.A., Housing Manager

Gloria Anderson, Assistant to the Dean

Lea Arnold, B.A., M.Ed., Area Director, First-Year Focus

Janice Gates Kelly, B.S., M.Ed., Area Director, Plimpton Hall and BC at Columbia

Amy Lynn Mancuso, B.A., M.S., Area Director, 600, 616 and 620 West 116th Street

Lillian Caddle-Legall, Area Manager, 600, 616 and 620 West 116th Street

Paulette Suber, Area Manager, The Quad

Jennifer Weisman, B.A., M.Ed., Area Director, Elliott

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Betty Weems, B.S., Associate Director

Karla Buchting, Supervisor

George Koserowski, Supervisor

Michael Ruotolo, Supervisor

Kevin Tassej, Supervisor

Office of Special Events and Summer Programs

Jean McCurry, M.A., Director of Special Events and Summer Programs

Laurie Peterson, M.A., Manager of Special Events and Summer Programs

THE ASSOCIATE ALUMNAE OF BARNARD COLLEGE

Barnard graduates number more than 29,000 and have distinguished themselves in almost every field. The most recent edition of *Baccalaureate Origins of Doctorate Recipients* for the decade 1981-90 ranks Barnard third in the country among all private four-year undergraduate colleges in the number of graduates who go on to receive Ph.D.s in all fields; first among all colleges in the number of graduates pursuing Ph.D.s in psychology; and fourth in pursuing Ph.D.s in the sciences.

Alumnae serve Barnard in three important ways: recruiting students for Barnard, interpreting and promoting Barnard in their communities, and supporting the College financially. Alumnae also support the College by volunteering for leadership positions, participating in alumnae events and programs, and hiring Barnard students, interns, and graduates. A network of more than 100 clubs and regional representatives links alumnae in the United States and abroad, providing a source for potential friendships as well as business and professional contacts for alumnae when traveling or relocating.

The Associate Alumnae of Barnard College (AABC) is headed by a twenty-member Board of Directors that develops programs designed to connect alumnae to each other and to the College through class and regional groups in the United States and abroad, as well as through career, young alumnae, and other affinity networks. All graduates and former students who have completed at least one year of undergraduate study at Barnard and have left in good academic standing are members. There are no alumnae dues.

Barnard alumnae receive *Barnard* magazine, the *Barnard Reporter*, and invitations to alumnae events and other academic and career programs. Alumnae can audit courses and use campus facilities such as the Barnard and Columbia libraries and the Office of Career Development.

The central office of the AABC is the Office of Alumnae Affairs on the Barnard College campus.

SCHOLARSHIP FUNDS

GENERAL SCHOLARSHIP FUNDS

Mary Allen Fund (1981) <i>In memory of Ruth Marley.</i>	Suzanne Payton Campbell '20 Fund (1992)
Neils J. Allison Fund (1964) <i>From the estate of Beatrice C. Allison.</i>	Barbara Friedman Chambers '62 Fund (1997)
Arthur G. Altschul Fund (1984)	Elaine Schlozman Chapnick '61 and David Chapnick Fund
Helen Goodhart Altschul Fund (1990) <i>In memory of Helen Goodhart Altschul '07.</i>	Chicago Campaign Fund (1992)
Alumnae Fund (1922)	Fanny Steinschneider Clark '24 Fund (1978)
Anna E. Barnard Fund (1899)	Jennie B. Clarkson Fund (1898)
Annie Griffen Baruch Fund (1996)	Class of 1918 Fund (1975)
Joan H. Baum Fund (1977)	Class of 1921 Fund (1931)
Frances E. Belcher '02 Fund (1963)	Class of 1925 Fund (1975)
Morris and Esther Biederman '31 Fund (1994)	Class of 1926 Fund (1981)
Ruth Marshall Billikopf '19 Fund (1950)	Class of 1930 Fund (1975)
Varian White Blumberg '13 Fund (1952)	Class of 1931 Memorial Fund (1981)
Rose and Solomon Blumenthal Fund (1987)	Class of 1933 Fund (1973)
Elizabeth M. Bogardus '44 Fund (1976)	Class of 1935 Fund (1975)
Charles E. Bogert and Anna Shippen Young Bogert Memorial Fund (1913)	Class of 1936 Fund (1971)
Eva-Lena Miller Booth Fund (1932)	Class of 1938 Fund (1989)
Dorothy S. Boyle '40 Fund (1978)	Class of 1939 Fund (1990)
Josephine Brand '07 Fund (1970)	Class of 1940 Memorial Fund (1991)
Brearley School Fund (1889)	Class of 1943 Fund (1989)
Florence Mackie Brecht '39 Fund (1993)	Class of 1947 Memorial Fund (1982)
Martha Ornstein Brenner Class of 1899 Fund (1915)	Class of 1948 Fund (1989)
The Anny Birnbaum Brieger '29 and Edith Birnbaum Oblatt '29 Fund (1992)	Class of 1953 Fund (1973)
Arthur Brooks Fund (1897)	Class of 1954 Fund (1955)
Margaret Bullowa '30 Fund (1979)	Class of 1959 Fund (1974)
Elsa B. Bunn '18 Fund (1980)	<i>In memory of Jacqueline Zelniker Radin.</i>
Elizabeth Hobe Burnell '20 Fund (1971)	Class of 1963 Fund (1983)
	Class of 1964 Fund (1992)
	Class of 1974 Fund (1991)
	Class of 1981 Fund (1982)

SCHOLARSHIP FUNDS

Martine Cobanks '18 Fund (1973)

Beatrice Rosenthal Coleman '38
Scholarship Fund (1991)

Rosalie Colie Fund (1993)

College Bowl Fund (1968)

Barbara Myers Cross Fund (1986)

Yvonne Moen Cumerford '23 Fund (1972)

Caryl M. Curtis '32 Fund (1980)

Vera B. David Scholarships (1962)
In memory of her late husband, John David.

Ethel Dawbarn '18 Fund (1987)

Blanche Heyman Doernberg '05 Fund (1991)

Ada M. Donelle Fund (1948)

L. Adele Dorsett '06 Fund (1971)

Helen Geer Downs '40 Fund (1974)

Drake Scholarships and Fellowships (1992)

Amelia Cary Duncan Fund (1976)

Marie G. Eckhardt '22 Fund (1990)

May Parker Eggleston '04 Fund (1977)

Betty Eisenstadt Fund (1982)
*In memory of Sarah and Israel Gillman and
Betty Eisenstadt.*

Elizabeth Kramer Emmons '42 Fund (1986)

Sarah Engel '15 Fund (1973)

Laura Teller Ericsson '32 Fund (1976)

Dora L. Falk '04 Fund (1995)

Abbe Fessenden '62 Fund (1994)

Margaret Jane Fischer '35 Fund (1968)

Fiske Fund (1895)

Martha T. Fiske Fund (1911)

Edyth Fredericks '06 Fund (1974)

Clara Lillian Froelich '15 Fund (1979)

Ellen V. Futter '71 Fund (1994)

Doris P. Gallert '04 Fund (1970)

Galway Fund (1912)

Helen Jenkins Geer '15 Fund (1940)

Cecile Meister Gilmore '30 and Benjamin
Gilmore Fund (1986)

Anita Hyman Glick '62 Fund (1968)

Irma Alexander Goldfrank '08 Fund (1919)

Sarah S. and Louis A. Goldman Fund (1992)

Harriet Wilinsky Goodman '27 and Sylvan
A. Goodman Fund (1983)

Elsa Gottlieb '13 Fund (1982)

Graham School Fund (1907)

Blanche Kazon Graubard '36 Fund (1981)

Ethel C. Gray '17 Fund (1973)

Virginia Ehrman Greenwald '26 Fund (1996)

Louise H. Gregory Fund (1955)

Hetta Stapff Halloran '11 Fund (1977)

Mary Catlett Hardy Fund (1994)

Harkness Fund (1939)

Jane Harnett '63 Fund (1978)

Helen May Smith Helmle '30 Fund (1973)

Margaret Holland '30 Fund (1975)

Rita Hilborn Hopf '14 Memorial Fund
(1966)

Harriet Kaye Inselbuch '62 Fund (1992)

Eleanor Levison Israel '39 Fund (1976)

Lucie Burgi Johnson '17 Fund (1979)

Lily Murray Jones '05 Fund (1950)

The Kahn Fund (1994)

Mildred K. Kammerer '19 Fund (1973)

Peggy King Scholarship Fund (1986)

Mirra Komarovsky '26 Fund (1975)

Lucile Wolf Koshland '19 Fund (1980)

Elsie M. Kupfer Class of 1899 Fund (1975)	Caroline Church Murray Fund (1918)
Margaret Irish Lamont '25 Fund (1978)	Annette Florence Nathan Fund (1947)
Augusta Larned Fund (1924)	Dora R. Nevins '04 Fund (1969)
Marjorie Hermann Lawrence Fund (1965/67)	Ann Whitney Olin '27 Fund (1982)
Yves LeMay '52 Fund (1982)	Lucretia Perry Osborn Fund (1940)
Harriett Mooney Levy Fund (1965)	Dorothy Brockway Osborne '19 Fund (1976)
Joan Sperling Lewinson '13 Fund (1955)	Elizabeth Palmer '15 Fund (1972)
Judith Lewittes '55 Fund (1957)	Jean T. Palmer '53 Fund (1969)
Dora Mei and Tsiang Kwang Li Fund (1994)	Josephine Bay Paul Fund (1978)
Anne Elizabeth Lincoln '24 Fund (1963)	Carl and Lily Pforzheimer Foundation Fund (1993)
Amy Loveman '01 Fund (1956)	Lucy Powell '13 Fund (1971)
<i>See Prizes, page 321.</i>	M. Gladys Quinby '08 Fund (1961)
Louise Grace Luby Class of 1893 and James Luby Fund (1947)	Jacqueline Zelniker Radin '59 Fund (1975)
Barbara Scoville Maarschalk '32 Fund (1977)	Eleanor Kaiser Reinheimer '28 Fund (1976)
Frances E. and Harry W. Martin Fund (1986)	Edna Pulver Relyea Memorial Fund (1996)
Jeanne S. Mattersdorf and Bertha Miller Memorial Fund (1970)	Eva Rich '07 Fund (1968)
Cecile Lehman Mayer Fund (1962)	Peter C. Ritchie, Jr., Fund (1937)
Leo Mayer Fund (1972)	Gayle F. Robinson '75 Fund (1993)
Hugh and Mary McCorry Fund (1993)	Margaret Miller Rogers '23 Fund (1976)
Adele Duncan McKeown '11 Fund (1973)	Caterina Ronzoni Fund (1986)
Eloise F. McLennan '24 Fund (1987)	Edith Lowenstein Rossbach '19 Memorial Fund (1959)
Memorial Fund (1954)	Carrie W. and Corine A. Rowe '25 Fund (1979)
Cheryl Glicker Milstein '82 and Philip Milstein Fund (1992)	Helena Rubinstein Foundation Fund (1992)
Dorothy E. Miner '26 Fund (1977)	Edna Heller Sachs '10 Fund (1955)
Gladys Bateman Mitchell '14 Fund (1980)	May Herrmann Salinger '10 and Edgar Salinger Fund (1971)
William Moir Fund (1912)	<i>In memory of Isaac and Eugenie Herrmann.</i>
Rosalis Van Der Stucken Montgomery '35 Fund (1994)	Eleanor Butler Sanders Fund (1922)
Morris-Eppstein Fund (1995)	Anna M. Sandham Fund (1922)
Gulli Lindh Muller '17 Fund (1972)	Terry Rose Saunders '64 Fund (1992)

SCHOLARSHIP FUNDS

Katherine D. Schlayer '43 Fund (1975)

Schmitt-Kanefent Fund (1931)

Scholarship Fund (1901)

Katherine Flint Shadek '45 Fund (1961)

Dorothy Nolan Sherman '35 Fund (1983)

Marion Berenson Shinn '45 and Richard R. Shinn Fund (1992)

Anne Victoria and Elizabeth Jane Shutkin Fund (1983)

Doris Silbert '23 Fund (1987)

Max Sloman and Jane Stanley '41 Fund (1971)

Emily James Smith Fund (1899)

Frances M. Smith '32 Fund (1974)

Fred Curtis Smith Memorial Fund (1955)

George W. Smith Fund (1906)

Sylvia W. Stark '26 Fund (1981)

C. V. Starr Fund (1983)

Claire Wander Stein '36 Financial Aid Fund (1981)

Edna Phillips Stern '09 Fund (1952)

Eleanor Holden Stoddard '06 Fund (1977)

Isabel Greenbaum Stone '18 Fund (1957)

Alice Warne Stout '38 Fund (1995)

In memory of Pearl Waite Warne

Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Fund (1969)

Solon E. Summerfield Foundation Fund (1960)

Anna Stechel Sussner Fund (1993)

Thompson Fund (1993)

Thrift Shop Fund (1938)

From the Barnard Scholarship Unit of Everybody's Thrift Shop.

Miriam Tobias '35 Fund (1980)

Mildred Gluck Tomback '27 Fund (1995)

Veltin School Fund (1905)

Florence Meyer Waldo Fund (1980)

Alma F. Wallach '01 Fund (1951)

Dorothy Calman Wallerstein '09 Fund (1976)

Ella Weed Fund (1895)

Hymen and Helen Werner Fund (1964)

Fern Yates Memorial Fund (1980)

SCHOLARSHIPS WITH PREFERENCES

Patricia Leigh (Pat) Abbott Fund (1981)

For a student or students who have overcome serious physical difficulties.

Mary Ann Adams and Lily Frances Adams Fund (1991)

Preferably for a student majoring in history or another social science.

Mary Gertrude Edson Aldrich Fund (1916)

To a senior who has shown high moral qualities.

Mary Anderson Archer and Joseph Alan Wheat Fund (1997)

Preferably for students who are studying mathematics or science.

Norma Ketay Asnes '57 Fund (1993)

Preferably for African-American students.

Axe-Houghton Fund (1977)

For juniors or seniors with average of at least 3.0.

Helene Gottesman Axelrod '42 Fund (1997)

Preferably for students who are graduates of secondary schools in New York State.

Bertha R. Badanes '14 Fund (1966)

For children of New York City schoolteachers, preferably from Brooklyn.

Anne Glynn Basker Fund (1996)

Preferably for students from Oregon.

Barnard College Club of Brooklyn Fund (1944)
For a student from Brooklyn.

Barnard College Club of Greater
San Francisco Fund (1986)
*For a student preferably from the San Francisco
Bay area.*

Barnard College Club of Houston Fund (1969)
For students from the Houston area.

Barnard College Club of New York Fund (1952)
For a student from outside New York City.

Barnard-in-Westchester Fund (1962)
Preferably for students from Westchester County.

Barnard School Alumnae Fund (1916)
Preferably for nominees of the school.

Willina Barrick Class of 1900
Memorial Fund (1936)
*By the College Club of Jersey City for a graduate of a
Jersey City secondary school.*

The Annette Kar Baxter '47
Memorial Fund (1984)
*In memory of Annette Kar Baxter, '47, by her
colleagues, students, classmates, and other friends.
For students who have distinguished themselves in the
study of some aspect of women's experience.*

Betty Levy Berger '43 Fund (1995)
*For students majoring in the sciences, preferably
chemistry majors.*

Irving Berlin Fund (1950)
*For one or more Barnard students of foreign-born
parentage.*

June Rossbach Bingham '40 Fund (1976)
*For a Barnard student majoring in English, preferably
one who is interested in pursuing a writing career.*

Ida Blair Memorial Fund (1937)
Preferably for a student in political science.

Nina Thomas Bradbury '42 Future Teachers
Fund (1992)
Preferably for a student interested in teaching.

Thornton F. Bradshaw Fund (1986)
For transfer students.

Naomi Levin Breman '71 Fund (1992)
*Preferably for students majoring in history or
economics.*

Alice Marie-Louise Brett '15 Fund (1930)
For a senior specializing in French.

William Tenney Brewster and Anna
Richards Brewster Fund (1961)
*To be awarded in amounts not less than
\$1,000, preferably.*

Anne Brown Endowment Fund (1939)
For students from New York City.

Burbank Fund (1992)
*For one or more worthy students pursuing the study
of history, literature, or music of the United States,
or any combination thereof.*

Ruth L. Byram '24 Fund (1991)
*Preferably for students interested in teaching or
majoring in math.*

Alice Corneille Cardozo '36 Fund (1994)
Preferably for students in the fine arts or music.

Carpentier Residence Fund (1919)
*For students who are not residents of New York City
or its vicinity.*

Therese Cassel '11 Fund (1973)
*For students born in New York City, preferably those
whose mothers were born in New York City and
attended Barnard College.*

Lois Golden Champy '67
and James Champy Fund (1992)
*Preferably for African-American students who demon-
strate special need as well as ability.*

Dulcida Romero Chicón Fund (1994)
Preferably for students of Hispanic background.

Marilyn Chin Fund (1994)
*To be awarded to a student with demonstrated
leadership qualities.*

Eliza Taylor Chisholm Memorial Fund (1901)
*Preference to nominees of the Alumnae Association of
Miss Chisholm's School.*

SCHOLARSHIP FUNDS

C.I.T. Financial Corporation Fund (1979)

In honor of Eleanor Thomas Elliott '48. For a student of economics, mathematics, or political science.

Class of 1919 Decennial Fund (1929)

For a resident student.

Class of 1926 Emergency Student Aid Fund (1976)

For emergency financial aid.

Class of 1949 Fund (1974)

For an incoming first-year student.

Mrs. Henry Clarke Coe Fund (1910)

By the New York City Colony of the National Society of New England Women, to a student from New England or of New England parentage.

The Gene and Barbara Kauder Cohen '54 Memorial Scholarship Fund (1995)

Preferably for promising writers.

Charles A. Dana Fund (1982)

For students designated Dana Scholars, as specified in the guiding principles for the program.

Babette Deutsch '17 Fund (1978)

For Barnard students who have demonstrated exceptional ability in poetry, criticism, or translation.

Marie Ward Doty '36 Fund (1981)

Preferably to daughters of parents in law enforcement or related fields.

Augusta Salik Dublin '06 Fund (1960)

For a student in a field of social welfare.

Elizabeth M. Edersheim '85 Memorial Fund (1992)

For juniors majoring in mathematics or English, preferably mathematics, to be renewed for an additional year if academic standards are maintained.

Educational and Cultural Trust Fund of the Electrical Industry (1951)

For daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers.

May Parker Eggleston '04 Fund (1972)

For a science student, preferably one planning to attend medical school.

Christine H. Eide '39 Memorial Fund (1968)

For juniors majoring in anthropology or English.

Eleanor Thomas Elliott '48 Fund (1973)

For winners of the Eleanor T. Elliott Prize (see page 319) and/or for other deserving students.

Gladys Renshaw Esterbrook '20 Fund (1958)

Preferably for English or French majors.

Sophie Schulman Felton '18

Scholarship Fund (1995)

Preferably for a student majoring in science, particularly chemistry.

Doris E. Fleischman Fund (1992)

For the winner of the Doris E. Fleischman '13 Prize (see page 321), or, if that student is not in need of financial aid, to the most outstanding writer among English majors.

Marion Pratt Fouquet Fund (1961)

Preferably for older students.

Gentile Family Fund (1992)

Preferably for inner-city students.

German Fund (1950)

For a German major. See also Prizes, page 322.

Virginia C. Gildersleeve Fund (1968)

For a major in the humanities, preferably English.

Virginia C. Gildersleeve International Fund (1937)

For a foreign student.

Cecil Paige Golann '41 Fund (1995)

Preferably for a student majoring in classics or archaeology.

Elizabeth Hughes Gossett '21 Scholars (1981)

For freshmen or sophomores for academic achievement, demonstrated inclination toward public service, and leadership qualities.

Emily Morris Hadley '28 Fund (1996)

Preferably for students who play musical instruments.

Thora M. Hardy '25 Fund (1995)

Preferably for a student majoring in biology.

William Randolph Hearst Endowed Fund for Minority Students (1995)
Preferably for African-American and Latina students.

Julius Held Fund (1970)
For students majoring in art history.

Janet Williams Helman '56 Fund (1993)
Preferably for minority students from Chicago, Illinois.

Dominique Henrey Memorial Fund (1990)
For a first-year student who has an interest in creative writing.

Emma Hertzog Fund (1904)
For a graduate of Yonkers High School.

Alena Wels Hirschorn '58 Fund (1986)
For the winner of the Alena Wels Hirschorn essay prize, or to the most outstanding economics major.

Marion Alice Hoey '14 Fund (1944)
Preferably for a student in Greek and Latin.

Hannah Falk Hofheimer '09 and Henry Hofheimer Fund (1975)
For a freshman.

Holland Dames Fund (1915)
For a descendant of early Dutch settlers.

Lillia Babbitt Hyde Fund (1953)
For premedical students.

Charlotte Louise Jackson Fund (1928)
For a graduate of Yonkers High School.

Mary E. Larkin Joline Fund (1927)
For a student specializing in music.

Werner Josten Fund (1955)
Preferably for a student in music.

Helene L. Kaplan '53 Fund (1993)
Preferably for students in the metropolitan New York area.

Jessie Kaufmann Fund (1902)
For a student who has no relative able to offer financial assistance.

Kimball Fund (1938)
For a student from Spain or one of the Spanish-American countries for study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish.

Eleanor Kinnicutt Fund (1911)
For a sophomore of exceptionally high standing.

John A. Kouwenhoven Fund (1991)
Preferably for an English major.

Henry C. Kuever and Frederick W.A. Fuller Fund (1981)
Preferably for a student majoring in music, or in Greek or mathematics.

Wei-Ven Yao Kung Fund (1992)
Preferably for students of Asian background.

Dr. Ann G. Kuttner '15 Fund (1969)
Preferably to premedical students.

Eugene M. Lang Fund (1988)
Preferably for minority students.

Marjorie de Loynes Lange '50 Fund (1993)
Preferably for a student studying music.

Hortense Owen Lazar '26 Fund (1991)
Preferably for students who have demonstrated both exceptional promise in the field of creative writing and a practical concern for others.

Judith M. Lebensold Fund (1993)
Preferably for students majoring in political science or planning a career in law.

Ethel Stone LeFrak '41 Prize and Scholarship Fund (1986)
To a student for excellence in a field of the arts, the balance as a grant to the prize recipient or a meritorious alternate.

Toby Levy '72 Architecture Fund (1993)
For students studying architecture.

Bernard Liberman Fund (1979)
For premedical students.

Carolina Marcial-Dorado Fund (1953)
For a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad, or to a student who is majoring in Spanish.

Raphael Marino Fund (1977)
For a student proficient in Italian language, literature, art, or culture.

SCHOLARSHIP FUNDS

Eugene F. and Minnie Gouger McGowan Fund (1955)

Preferably for students from Mecklenburg County, North Carolina.

Fannie Moulton McLane Fund (1961)

For citizens of the United States preferably of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier.

Mrs. Donald McLean Fund (1906)

For a student of history (chiefly that of the United States).

Barbara and Marilyn Meyers Fund (1986)

Preferably for students majoring in writing, music, dance, or drama.

Alice Miller '58 Memorial Fund (1989)

Preferably for premedical students.

Ferry Starr Morgan Fund (1959)

For a student majoring in music or philosophy.

Lawrence Morris Fund (1968)

Preferably for a nominee of the New York City Mission Society.

Ruth Day Moser '36 Fund (1983)

For seniors majoring in sociology.

Lucy Moses Fund (1975)

For a premedical student. See Prizes, page 320.

Ann Newman '69 Fund (1986)

For study abroad.

The New York Times Fund (1990)

For minority students.

Eileen O'Brien '48 Fund (1994)

Preferably for a student studying in the arts.

Julia Fisher Papper '37 Fund (1974)

For a senior of superior academic standing and high motivation.

John and Laura Pomerantz Fund (1995)

Preferably for transfer students.

Mary Barstow Pope Fund (1913)

For a nominee of a self-perpetuating committee representing the founders.

Public Service Fund (1934)

By the Women's Organization for National Prohibition Reform for students in their junior or senior years who show special promise for public service.

Lucille Pulitzer Fund (1899)

Three are restricted to students from the City of New York, eight are for resident students.

Basil Rauch Memorial Fund (1992)

For students majoring in history or in political science with an interest in foreign affairs.

Gladys A. Reichard Anthropology Scholarship Fund (1992)

For students majoring in anthropology, or, if there are no such eligible students, for students majoring in other social sciences.

Marie Reimer Fund (1953)

See Prizes, page 320.

Amelia Agostini de del Rio Fund (1955)

For a student from Puerto Rico or a student who is majoring in Spanish.

Jennifer Romine '82 Fund (1996)

Preferably for students planning careers in natural history, wildlife conservation or veterinary medicine.

Lesley Jane Rosen '71 Memorial Fund (1975)

For a student who shows leadership quality and whose subject of interest is urban studies and/or political science.

Dr. Harry Rosenstein Fund (1967)

For a premedical student.

Doris Schloss Rosenthal '35 Fund (1981)

For students majoring in courses in the arts.

Doris Schloss Rosenthal '35 Science and Math Fund (1993)

For students majoring in science or mathematics.

Joan Rosof '61 Fund (1964)

For students from the State of New York.

Julian and Denver F. Roth '23 Fund (1996)

Preferably for students from the New York City area.

Felix St. George Scholarship (1955)

For an incoming freshman studying physics, chemistry, or biology.

- Dorothy K. Scheidell '28 Fund (1965)
Preferably for premedical students.
- Lillian Schoedler '11 Fund (1967)
For students who show promise of civic leadership.
- Margarete Schwabe Fund (1974)
For premedical students with outstanding ability and idealism.
- Ruth Gould Scoppa '37 Fund (1985)
Preferably for a student majoring in English.
- Henry Sharp Memorial Fund (1992)
For a student who has or will take one basic course in geology, geography, or environmental science.
- Roslyn S. Silver '27 Scholarship Program (1982)
For junior and senior students preparing for careers in medical research.
- Clarice Ann Smith '18 Fund (1973)
For students of literature and composition.
- Marion Wesley Smith Fund (1978)
For students majoring in anthropology.
- Hilda Staber '05 Fund (1967)
For foreign students.
- Estella Raphael Steiner '23 Fund (1972)
For a senior in biological sciences who plans to engage in research in that field.
- Beatrice L. Stern '25 Memorial Fund (1977)
For juniors and seniors in the life sciences or in the area of intergroup relations with special emphasis on those problems affecting minority welfare and acceptance in the American scene.
- Marion Levi Stern '20 Fund (1977)
Preferably for students in the social sciences.
- Simon Strauss and Elaine Mandle Strauss '36 Fund (1981)
For disabled students.
- Emma A. Tillotson Fund (1910)
For a sophomore of exceptionally high standing.
- Clara Bittenwieser Unger '13 Memorial Fund (1938)
For a senior in political science who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.
- Helen Elizabeth Vosburgh Fund (1934)
Preference to a self-supporting student.
- Mary Voyse '13 Fund (1989).
For a student from Yonkers.
- Walter A. Wagener Memorial Fund (1984)
For students majoring in a field of the arts.
- Gertie Emily Gorman Webb Fund (1953)
For a nominee of the Department of History.
- May Hessberg Weis '13 Fund (1981)
For students in environmental ethics and conservation.
- Esther Lensh Weisman '24 Fund (1979)
Preferably for a student majoring in English.
- Marian Churchill White '29 Fund (1975)
For the winner of the Marian Churchill White Prize (see page 320), or an alternate with similar qualifications.
- Allison Wier Fund (1977)
For students who are residents of Westchester County.
- Martin Wong Fund (1993)
For a Barnard student studying in France.
- Elsa P. Wunderlich '12 Fund (1978)
For a German exchange student.
- Richard P. Youtz Fund (1987)
For students in the Resumed Education Program.
- The Miriam Scharfman Zadek '50 Scholarship Fund (1997)
To provide financial aid to defray room and board expenses for a needy student who resides in an area designated by the College as within commuting distance, but who would most benefit from being a resident student at Barnard College.
- Alma Gluck Zimbalist Fund (1940)
For students in political science.
- Gertrude Bunger Zufail '19 Fund (1987)
For a senior premedical student. See Prizes, page 320.

SCHOLARSHIP FUNDS

INTERNSHIP FUNDS

The Costanza Anchisi '89 Memorial Internship Fund (1991)

For a junior majoring in Asian and Middle Eastern cultures.

The Maura Shannon Barrett '83 Internship Fund (1991)

In memory of Maura Shannon Barrett '83.

For a student who demonstrates a strong interest in science and evidence of previous experience with scientific investigation under the auspices of a scientist.

Jane Rosenzweig Jelenko '70 Internship Fund (1997)

The Jessica E. Patt '89 Community Service Internship Fund (1993)

For students seeking to engage in intellectually meaningful work that provides a vital link between the classroom and the world at large.

Belle and Harry Salzman Internship Fund (1992)

Internships in the Washington D.C. area for juniors and seniors who are interested in careers in public service, law, and government and who have demonstrated financial need.

The Bernice G. Segal Summer Research Internships Fund (1986)

For support of supervised research in the sciences. Recipients are selected by the Faculty Committee on Honors, upon recommendation of the faculty of the Departments of Chemistry, Biological Sciences, and Physics.

LOAN FUNDS

The following loan funds are administered by the Committee on Financial Aid in accordance with terms specified by the donors and are regularly assigned as part of students' financial aid awards.

Associate Alumnae Student Loan Fund

Barnard College Club of Cleveland Loan Fund

Barnard College Loan Fund

Ann Susan Becker Memorial Loan Fund

Thomas F. Clark Student Fund

Marilyn Chin Loan Fund

Pauline Hirschfeld Loan Fund

Gertrude C. Hitchcock Loan Fund

Adelaide Le Ciercq Loan Fund

Swope Loan Fund

Tudor Foundation Student Loan Fund

HONORS

The following awards, administered according to the provisions of their respective donors, were established to honor those who have shown exceptional distinction in their studies.

FELLOWSHIPS

Alpha Zeta Club Graduate Scholarship (1936)

For graduating seniors who show promise of distinction or to outstanding recent Barnard graduates who are candidates for higher degrees.

Associate Alumnae of Barnard College Graduate Fellowship (1963)

For a graduating senior or graduate who shows exceptional promise in her chosen field of work. Information and applications may be obtained in the Alumnae Office.

Anne Davidson Fellowship (1971)

For graduating seniors who will pursue graduate study in conservation at a university of approved standing.

George Welwood Murray Graduate Fellowship (1930)

For graduating seniors who show promise of distinction in the humanities and/or the social sci-

ences and who will pursue graduate study at a university or college of approved standing.

Lillian Niederman Fellowship Award (1984)

By Dr. Miriam S. Harris, in memory of her mother, Lillian Niederman Shapiro. For a graduating senior who gives promise of distinction as physician and humanist.

Josephine Paddock Fellowship (1976)

For graduating seniors who show promise of distinction in such fields of graduate study in art as the faculty shall determine. Holders are to pursue studies, preferably abroad, at a college or university of approved standing.

Grace Potter Rice Fellowship (1935)

For graduating seniors who show promise of distinction in the natural sciences or mathematics and who will pursue graduate study at a university or college of approved standing.

GENERAL

Estelle M. Allison Prize (1937)

For excellence in literature.

Mary E. Allison Prize (1937)

For general excellence in scholarship.

Annette Kar Baxter Memorial Fund Prize (1984)

For juniors who have distinguished themselves in the study of some aspect of women's experience.

Frank Gilbert Bryson Prize (1931)

For a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during the college years.

Eleanor Thomas Elliott Prizes (1973)

Two prizes to juniors chosen by the Honors Committee from among the five most outstanding students in the class based upon overall academic record, integrity, and good citizenship in the College.

Katherine Reeve Girard Prize (1964)

For a student whose interests are in the international aspects of a major.

Ann Barrow Hamilton Memorial Prize in Journalism (1978)

For a graduating senior who will pursue a career in journalism.

Alena Wels Hirschorn Prize (1986)

For a senior majoring in economics, with preference for a student who has a strong interest in English literature and/or in pursuing a career in journalism.

Lucyle Hook Travel Grants (1987)

To promising individuals with enriching, eclectic projects who demonstrate originality and self-direction.

Jo Green Iwabe Prize (1986)

To a student with a disability, for active participation in the academic and extracurricular life of the College.

Ethel Stone LeFrak Prize (1986)

For excellence in a field of the arts.

HONORS

BY ACADEMIC AREA

Schwimmer Prize (1986)

For an outstanding graduating senior in the humanities.

Bernice G. Segal Summer Research Internships (1986)

One or more internships for supervised research in the sciences during the summer.

Marian Churchill White Prize (1975)

For an outstanding sophomore who has participated actively in student affairs.

PREMEDICAL

Helen R. Downes Prize (1964)

For graduating seniors who show promise of distinction in medicine or the medical sciences.

Ida and John Kauderer Prize (1973)

For premedical students majoring in chemistry.

The Barbara Ann Liskin Memorial Prize (1995)

For a premedical student committed to women's issues and to a humanistic approach to patient care.

Lucy Moses Award (1975)

For a premedical student likely to provide service to the medically underserved.

Gertrude Bunger Zufall Award (1987)

For a premedical student entering her senior year.

AMERICAN STUDIES

John Demos Prize in American Studies (1995)

Awarded to a senior major for excellence in American Studies.

ART HISTORY

Nancy Hoffman Prize (1983)

For students who plan to enter museum or gallery work or art conservatorship.

Virginia B. Wright Art History Prize (1969)

For promising seniors majoring in art history.

ASIAN-MIDDLE EASTERN CULTURES

Taraknath Das Foundation Prize (Columbia University)

To a student of Barnard College, Columbia College, or the School of General Studies, for excellence in Asian and Middle Eastern Studies.

BIOLOGICAL SCIENCES

Edna Henry Bennett Memorial Grants (1927)

For work at a biological laboratory offering summer courses.

Hermann Botanical Prize (1892)

For an undergraduate student proficient in biology.

Herbert Maule Richards Grants (1933)

For botanical research, under the direction of an approved institution.

Donald and Nancy Ritchie Grants (1979)

For biological study or research.

Spiera Family Prize (1986)

For promise of excellence by a student majoring in biological sciences.

Constance Von Wahl Prize (1915)

For advanced work in biology.

CHEMISTRY

American Chemical Society's Division of Analytical Chemistry Award

For outstanding work in analytical chemistry.

American Chemical Society's Division of Polymer Chemistry Award

For outstanding work in organic chemistry.

American Institute of Chemists, New York Chapter Prize

For an outstanding student of chemistry.

CRC Press First-Year Chemistry Achievement Award

For outstanding achievement in first-year chemistry.

Marie Reimer Scholarship Fund Prize (1953)

Awarded at the end of the junior year to an outstanding major in chemistry.

ECONOMICS**Alena Wels Hirschorn Prize (1986)**

To a junior for the best essay on a subject of domestic or international economics.

Beth Niemi Memorial Prize (1981)

For an outstanding senior majoring in economics.

Katharine E. Provost Memorial Prize (1949)

For superior work by an undergraduate major in economics.

Sylvia Kopald Selekmán Prize (1960)

For the first-year student who is doing the best work in introductory economics.

EDUCATION**Stephanie Kossoff Prize (1972)**

For the student who has made the most noteworthy contribution or meaningful endeavor in childhood education.

ENGLISH**Academy of American Poets Prize (Columbia University)**

For the best poem or group of poems by a student.

Lenore Marshall Barnard Prizes (1975)

For both poetry and prose of distinction.

Saint Agatha-Muriel Bowden Memorial Prize (1971)

For superior proficiency in the study of Chaucer and medieval literature.

Bunner Medal (Columbia University)

To the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature.

Doris E. Fleischman Prize (1992)

For the Barnard student judged to have written the best short piece, fiction or nonfiction.

W. Cabell Greet Prize (1974)

For excellence in English.

William Haller Prize (1987)

For excellence in the study of English literature.

Amy Loveman Memorial Prize (1956)

For the best original poem by an undergraduate.

Sidney Miner Poetry Prize (1962)

For the senior major who has shown distinction in the reading, writing, and study of poetry.

Peter S. Prescott Prize for Prose Writing (1992)

For a work of prose fiction which gives the greatest evidence of creative imagination and sustained ability.

Helen Prince Memorial Prize (1921)

For excellence in dramatic composition.

Helene Searcy Puls Prize (1984)

For the best poem in an annual student competition.

Stains-Berle Memorial Prize in Anglo-Saxon (1968)

For excellence in Anglo-Saxon language and literature.

Howard M. Teichmann Writing Prize (1986)

To a graduating senior for a written work or body of work that is distinguished in its originality and excellent in its execution.

Van Rensselaer Prize (Columbia University)

To the candidate for a Columbia degree who is the author of the best example of English lyric verse.

George Edward Woodberry Prize (Columbia University)

To an undergraduate student of the University for the best original poem.

ENVIRONMENTAL SCIENCE**Lillian Berle Dare Prize (1974)**

For the most proficient Barnard senior who will continue to study in geography or a related field.

Henry Sharp Prize (1970)

For an outstanding student majoring in environmental science.

FRENCH**Helen Marie Carlson French Prize (1965)**

For the best composition in fourth-term French.

Isabelle de Wyzewa Prize (1972)

For the best composition in the French course *Masterpieces of Literature from the Middle Ages to the Twentieth Century*.

HONORS

Frederic G. Hoffherr French Prize (1961)

To a student in intermediate French for excellence in oral French.

Linda Joan Israel Prize in French (1977)

To a French major, preferably a senior, for work done in *Advanced Oral French* or *Advanced Translation into French*.

Eleanor Keller Prizes (1968)

For juniors in French literature and seniors in French culture.

Rosemary Thomas Prize in French (1966)

For evidence of a special sensitivity and awareness in the study of French poetic literature.

GERMAN

Dean Prize in German (1952)

For the senior who has throughout college done the best work in German language and literature.

German Scholarship Fund Prize (1950)

Awarded at the end of the junior year to an outstanding major in German.

Louise Stabenau Prize in German (1988)

Awarded to a junior or senior major for excellence in oral German.

GREEK AND LATIN

John Day Memorial Prize (1986)

For a high-ranking sophomore in the field of Greek and Latin.

Earle Prize in Classics (Columbia University)

For excellence in sight translation of passages of Greek and Latin.

Benjamin F. Romaine Prize (Columbia University)

For proficiency in Greek language and literature.

Jean Willard Tatlock Memorial Prize (1917)

For the undergraduate student most proficient in Latin.

HISTORY

Eugene H. Byrne History Prize (1960)

For superior work by a history major.

Ellen Davis Goldwater History Prize (1982)

For superior work by a history major.

ITALIAN

Bettina Buonocore Salvo Prize (1966)

For a student of Italian.

Speranza Italian Prize (1911)

For excellence in Italian.

MATHEMATICS

Margaret Kenney Jensen Prize (1973)

To first-year students, sophomores, and juniors for excellence in mathematics.

Kohn Mathematical Prize (1892)

To a senior for excellence in mathematics.

MUSIC

Robert Emmett Dolan Prize (Columbia University)

To a student in any division of the University for instruction on a chosen musical instrument.

Ethel Stone LeFrak Prize (1986)

For a graduating senior whose creative writing in music shows promise of distinction.

PHILOSOPHY

William Pepperell Montague Prize (1949)

For promise of distinction in the field of philosophy.

Gertrude Braun Rich Prize (1986)

For promise of excellence by a student majoring in philosophy.

PHYSICAL EDUCATION

Margaret Holland Bowl (1974)

For excellence in leadership and participation in Barnard intramurals and recreation.

Marion R. Philips Scholar-Athlete Award (1981)

To the senior female winner of a varsity letter who has achieved the highest cumulative academic average and who has participated on a Columbia University team for at least two years.

Seven Sisters Senior Scholar-Athlete Award (1988)

For scholarly achievement and participation in Seven Sisters Competition.

Tina Steck Award (1980)

For the most outstanding member of the Swimming and Diving Team.

PHYSICS**Henry A. Boorse Prize (1974)**

To a graduating Barnard senior, preferably a major in the department, whose record in physics shows promise of distinction in a scientific career.

POLITICAL SCIENCE**James Gordon Bennett Prize (Columbia University)**

For the best essay on some subject of contemporary interest in the domestic or foreign policy of the United States.

Phoebe Morrison Memorial Prize (1969)

For a political science major planning to attend law school.

Caroline Phelps Stokes Prize (Columbia University)

For the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work.

PSYCHOLOGY**Ida Markewich Lawrence Prize (1982)**

For the best paper in psychology, preferably child psychology, by a major.

RELIGION**Caroline Gallup Reed Prize (1916)**

For outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion.

RUSSIAN**Alice Levin Sokolik Prize in Russian (1976)**

For the student who, in the course of her studies, has demonstrated the greatest love for the Russian language and literature.

SPANISH**John Bornemann Prize in Spanish (1976)**

For superior performance in the first- or second-year language courses.

Eugene Raskin Prize

For the best essay in fourth-term Spanish.

Spanish Prize (1959)

For a Spanish major who has done the most distinguished work in Spanish language and literature.

Ucelay Recitation Prize

For the best recitation of a poem or dramatic passage in Spanish.

Susan Huntington Vernon Prize (Seven Colleges)

For the best original essay written in Spanish by a senior whose native language is not Spanish.

THEATRE**Kenneth Janes Prize in Theatre (1987)**

For a Barnard junior or senior who has contributed notably to the theatre program of the Minor Latham Playhouse.

WOMEN'S STUDIES**Bessie Ehrlich Memorial Prize (1980)**

For an oral history project concerning a female relative of a preceding generation, in conjunction with the Women's Studies Department.

Jane S. Gould Prize (1982)

For an outstanding senior essay by a Women's Studies major.

	1889	1899	1909	1919	1929	1934	1944	1954	1964	1974	1984	1994	1995	1996
1889	to	to	to	to	to	to	to	to	to	to	to	to	to	to
1890	1900	1910	1920	1930	1935	1945	1955	1965	1975	1985	1995	1996	1996	1997
Undergraduates, Regular														
Seniors	—	40	62	87	227	181	208	245	355	572	559	571	590	585
Juniors	—	40	122	190	237	220	314	340	414	554	563	590	546	540
Sophomores	—	37	109	193	247	226	314	317	391	488	512	540	587	560
First-year Students	14	54	188	224	311	267	324	304	415	437	531	550	541	570
Unclassified Students	—	—	—	—	54	103	56	1	8	—	—	—	—	—
	14	171	481	694	1076	997	1216	1207	1583	2051	2165	2251	2264	2273
Special Students														
Matriculated	—	21	24	39	—	—	—	—	—	—	—	—	—	—
Non-matriculated	—	—	30	22	28	29	21	20	19	33	22	20	13	18
Departmental (1889-1896)	22	—	—	—	—	—	—	—	—	—	—	—	—	—
Music Students (1896-1905, 1914-1915)	—	41	—	—	—	—	—	—	—	—	—	—	—	—
	22	62	54	61	28	29	21	20	19	33	22	20	13	18
Graduate Students														
(1890-1900)	—	82	—	—	—	—	—	—	—	—	—	—	—	—
Total Registration	36	315	535	755	1104	1026	1237	1227	1602	2084	2187	2271	2277	2273
Degrees Conferred														
A.B.	—	39	88	139	247	221	270	258	367	497	612	527	528	592
B.S. (1909-1918)	—	18	2	5	—	—	—	—	—	—	—	—	—	—
A.M. (1898-1900)	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Ph.D. (1899-1900)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total Bachelor's Degrees conferred 1893-1997: A.B., 29,624; B.S., 77
These figures represent registration in the Autumn term.

COLUMBIA UNIVERSITY
THE MORNINGSIDES CAMPUS AND ENVIRONS



NEW YORK CITY



- Washington Heights
- 1 The Cloisters
 - 2 Columbia-Presbyterian Medical Center
- Harlem
- 3 Apollo Theatre
- Morningside Heights
- 4 Manhattan School of Music
 - 5 Riverside Church
 - 6 Union Theological Seminary
 - 7 Jewish Theological Seminary
 - 8 Columbia University
 - 9 Cathedral of St. John the Divine
- Upper West Side
- 10 Museum of Natural History
 - 11 Lincoln Center
- Upper East Side
- 12 Museum of the City of New York
 - 13 Cooper Hewitt Museum
 - 14 Guggenheim Museum
 - 15 Metropolitan Museum of Art
 - 16 The Whitney Museum
- Midtown
- 17 Museum of Modern Art
 - 18 Rockefeller Center
 - 19 St. Patrick's Cathedral
 - 20 N.Y. Public Library
 - 21 Grand Central Station
 - 22 United Nations
 - 23 Citicorp Center
 - 24 Port Authority Bus Terminal
 - 25 Jacob Javits Convention Center
 - 26 Pennsylvania (Train) Station and Madison Square Garden
 - 27 Empire State Building
- Wall Street Area
- 28 South Street Seaport
 - 29 Wall Street
 - 30 New York Stock Exchange
 - 31 World Trade Center
 - 32 Battery Park

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